FIG. 1

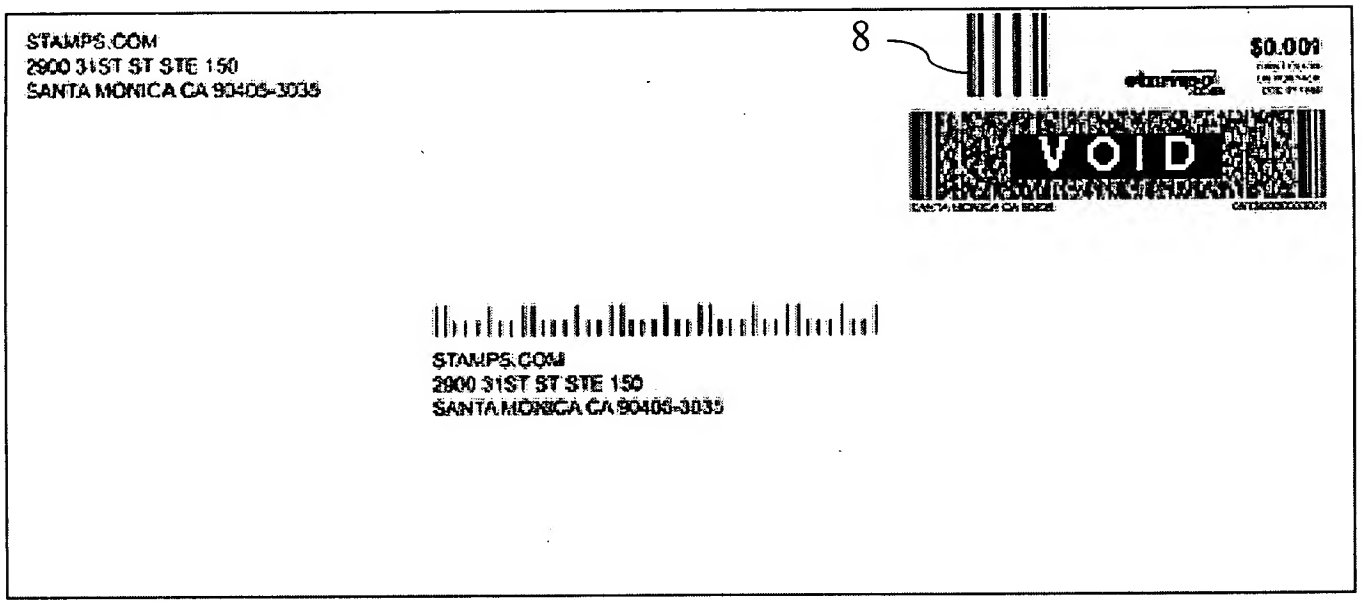

STAMPS.COM
2900 31ST ST STE 150
SANTA MONICA CA 90405-3035
8
$0.00
VOID
STAMPS.COM
2900 31ST ST STE 150
SANTA MONICA CA 90405-3035

FIG. 2

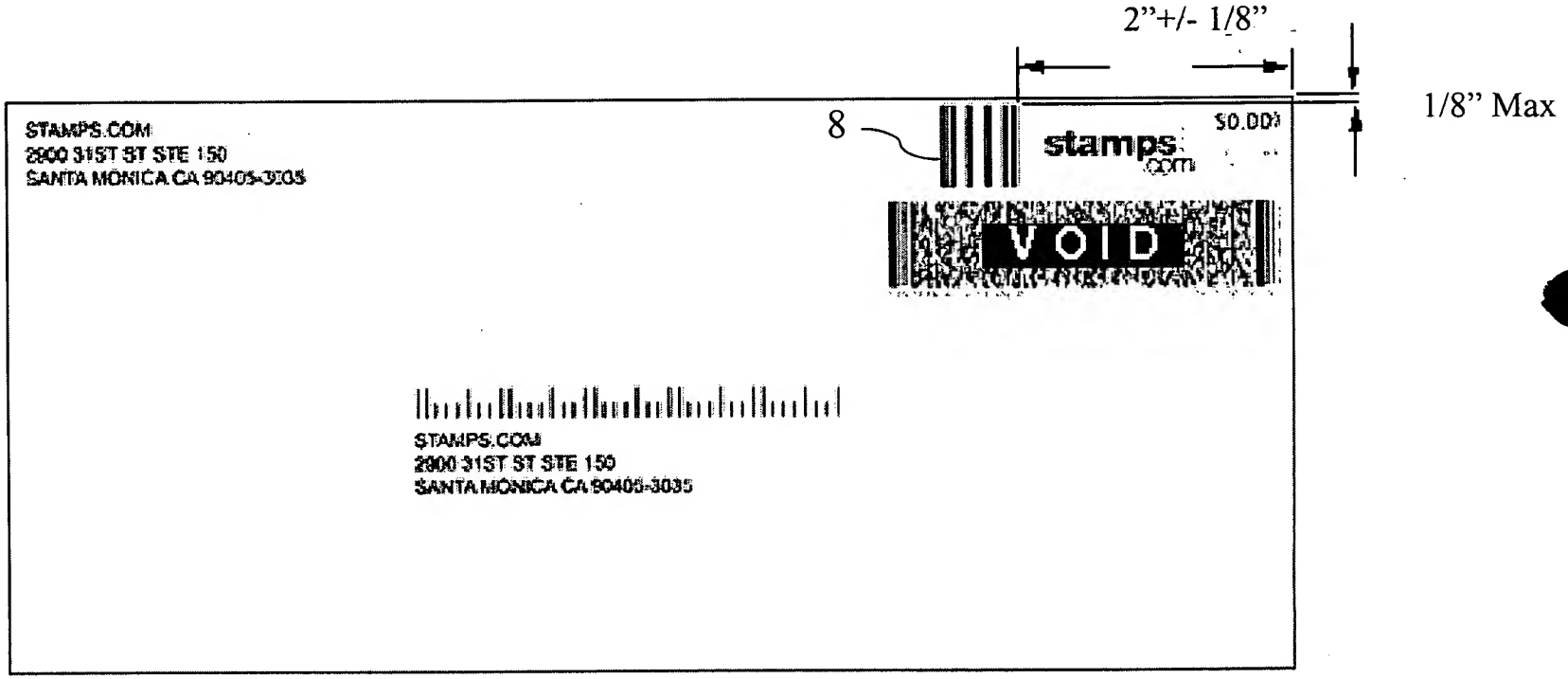
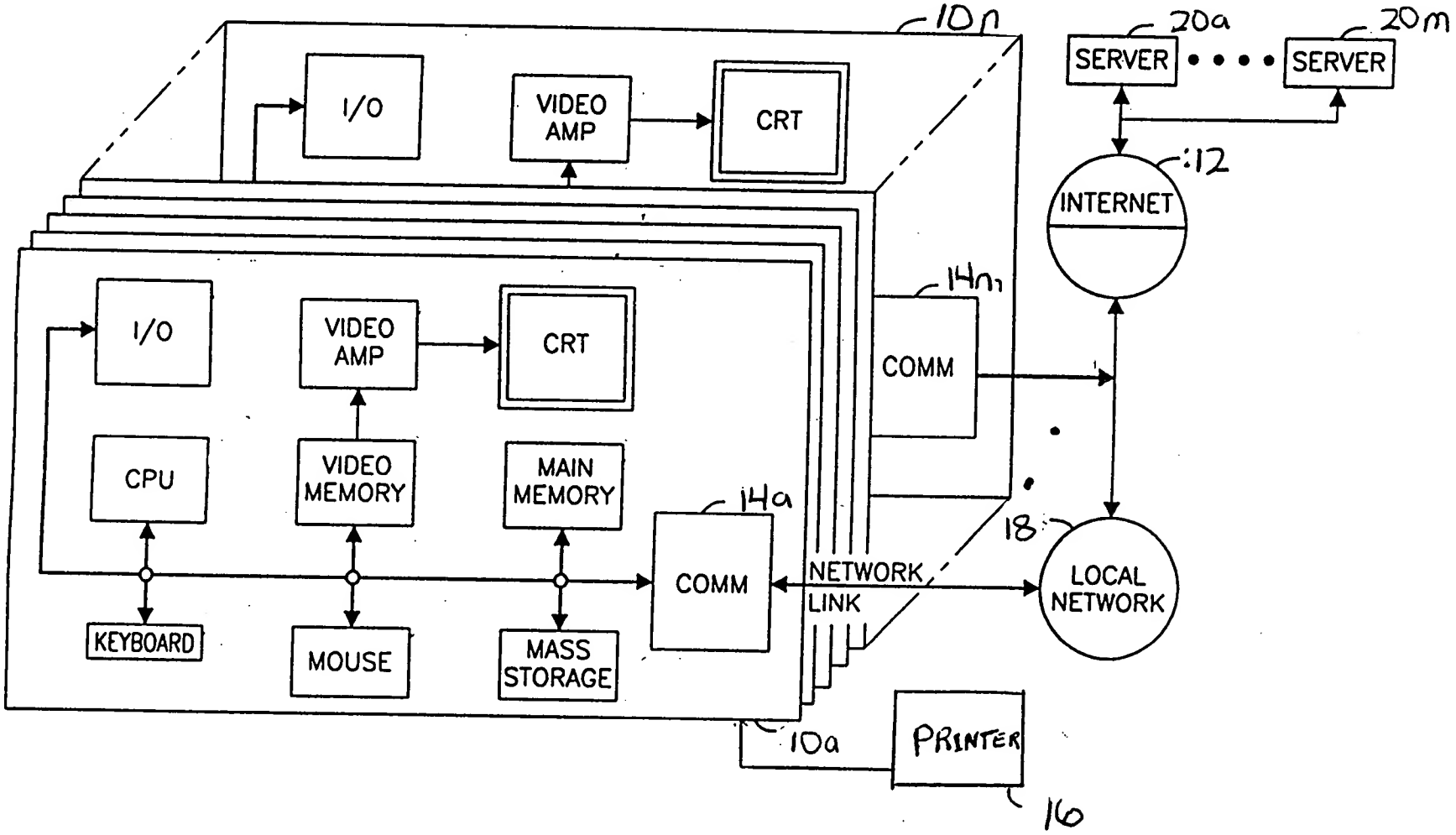

2"+/- 1/8"
1/8" Max
STAMPS.COM
2900 31ST ST STE 150
SANTA MONICA CA 90405-3035
8
stamps.com
$0.00
VOID
STAMPS.COM
2900 31ST ST STE 150
SANTA MONICA CA 90405-3035

FIG. 3A


10n
I/O
VIDEO AMP
CRT
20a
SERVER
SERVER
20m
12
INTERNET
14n
COMM
I/O
VIDEO AMP
CRT
CPU
VIDEO MEMORY
MAIN MEMORY
14a
COMM
18
NETWORK LINK
LOCAL NETWORK
KEYBOARD
MOUSE
MASS STORAGE
10a
PRINTER
16

006280" 68ETS960

FIG. 3B

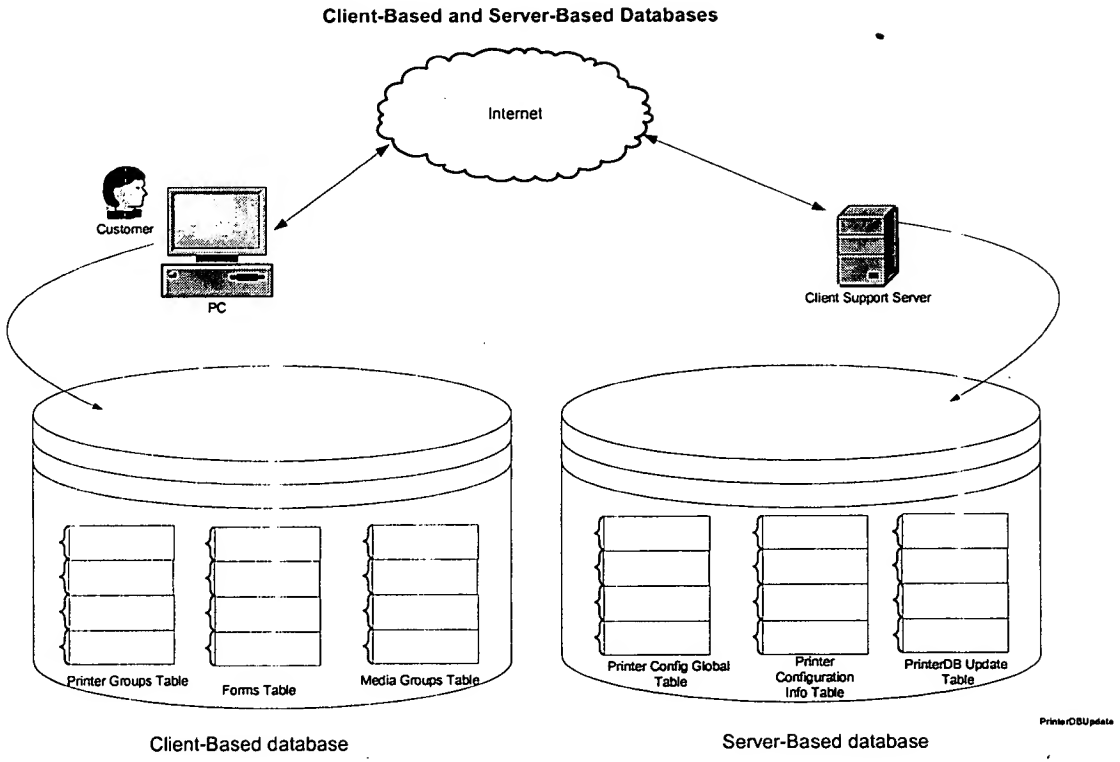
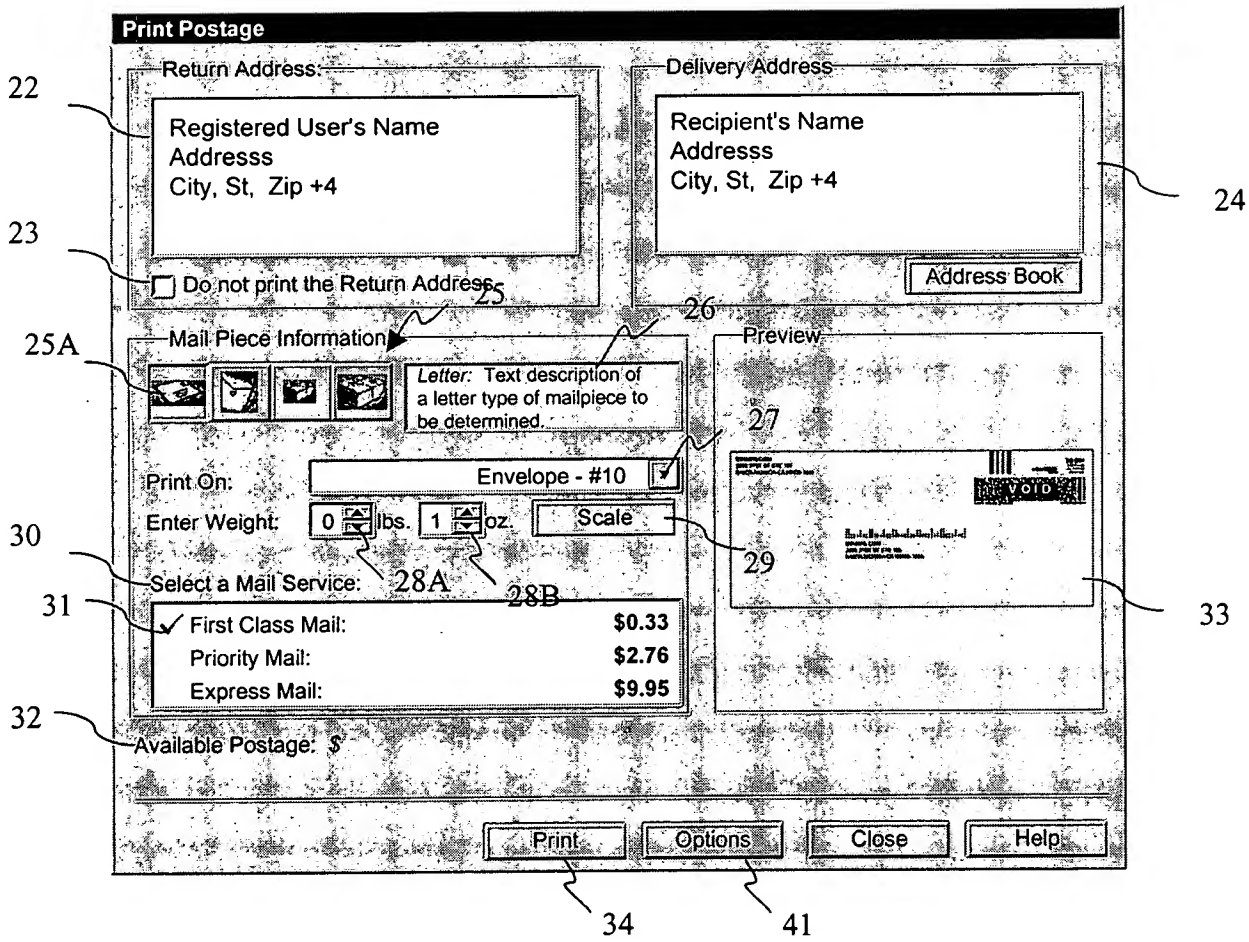


FIG. 4


Print Postage
Return Address:
Registered User's Name
Addresss
City, St, Zip +4
Delivery Address
Recipient's Name
Addresss
City, St, Zip +4
Address Book
Do not print the Return Address
Mail Piece Information
Letter: Text description of a letter type of mailpiece to be determined.
Preview
Print On:
Envelope - #10
Enter Weight:
0 lbs. 1 oz.
Scale
Select a Mail Service:
First Class Mail: $0.33
Priority Mail: $2.76
Express Mail: $9.95
Available Postage: $
Print
Options
Close
Help
22
23
24
25
25A
26
27
28A
28B
29
30
31
32
33
34
41

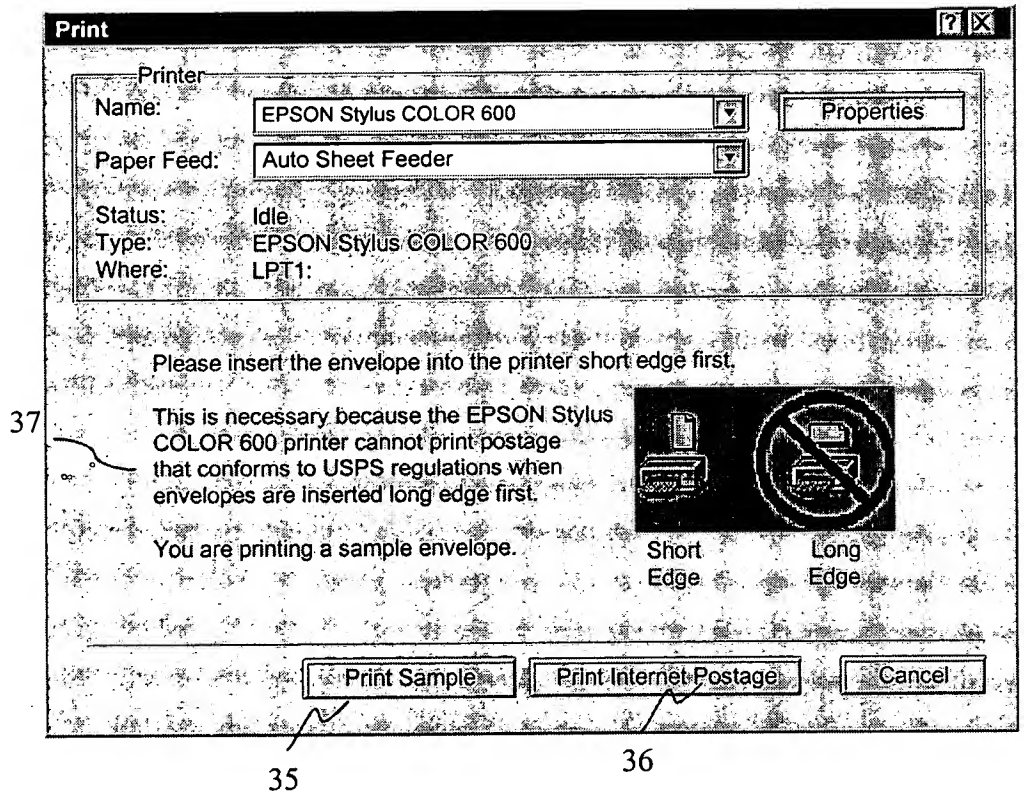

Print
Printer
Name:
EPSON Stylus COLOR 600
Properties
Paper Feed:
Auto Sheet Feeder
Status: Idle
Type: EPSON Stylus COLOR 600
Where: LPT1:
Please insert the envelope into the printer short edge first.
This is necessary because the EPSON Stylus COLOR 600 printer cannot print postage that conforms to USPS regulations when envelopes are inserted long edge first.
You are printing a sample envelope.
Short Edge
Long Edge
Print Sample
Print Internet Postage
Cancel
37
35
36

FIG. 5

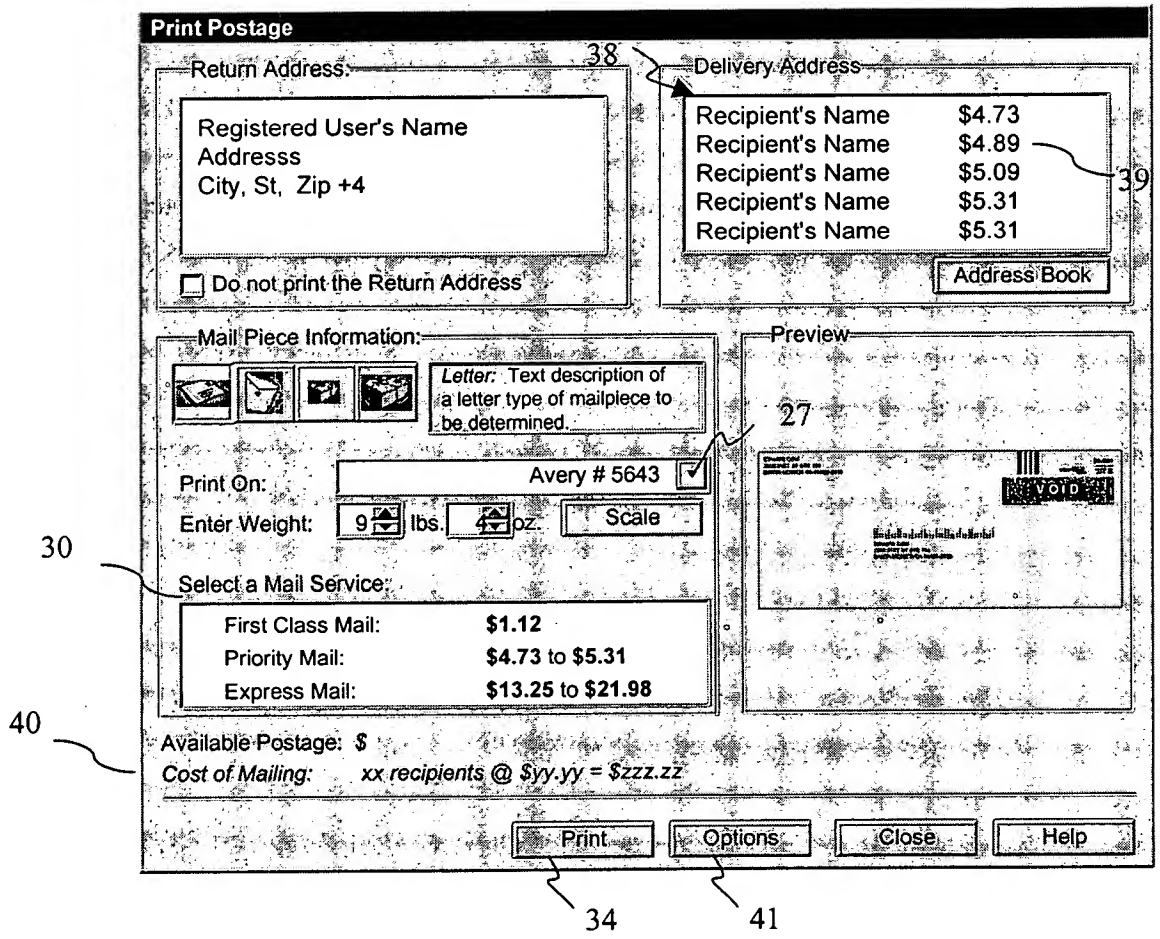

Print Postage
Return Address:
Registered User's Name
Addresss
City, St, Zip +4
Do not print the Return Address
38
Delivery Address
Recipient's Name $4.73
Recipient's Name $4.89
Recipient's Name $5.09
Recipient's Name $5.31
Recipient's Name $5.31
39
Address Book
Mail Piece Information:
Letter: Text description of a letter type of mailpiece to be determined.
Preview
27
Print On:
Avery # 5643
Enter Weight:
9 lbs. 4 oz.
Scale
30
Select a Mail Service:
First Class Mail: $1.12
Priority Mail: $4.73 to $5.31
Express Mail: $13.25 to $21.98
40
Available Postage: $
Cost of Mailing: xx recipients @ $yy.yy = $zzz.zz
Print
Options
Close
Help
34
41

FIG. 6

FIG. 7

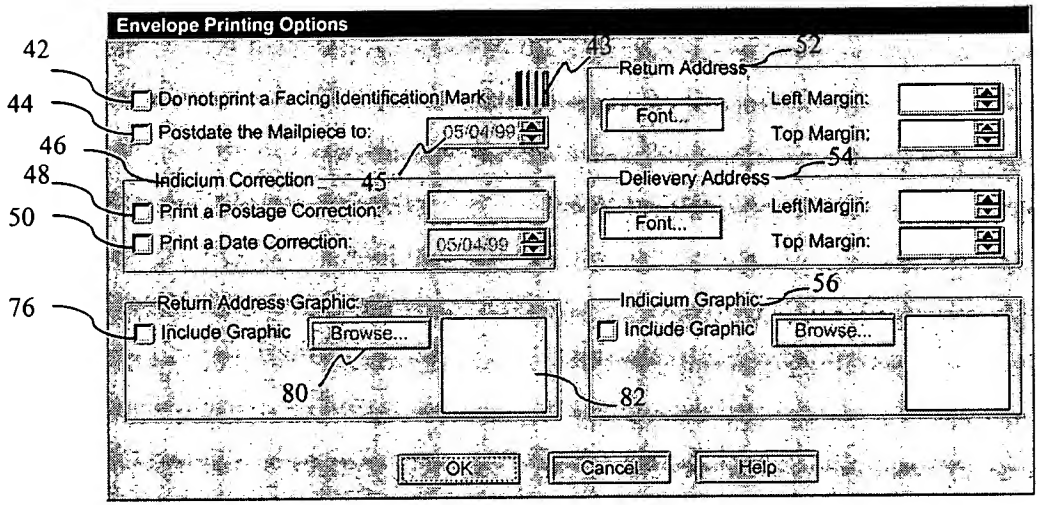
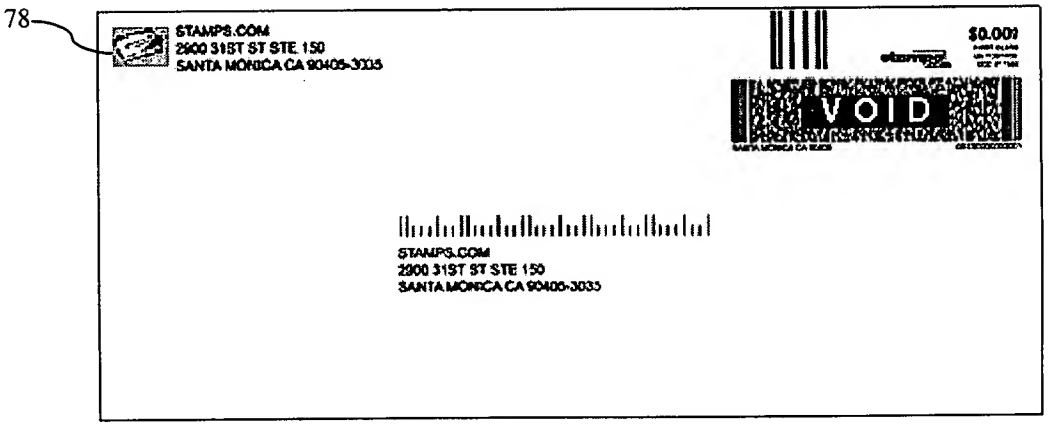

Envelope Printing Options
42
44
46
48
50
76
Do not print a Facing Identification Mark
Postdate the Mailpiece to:
05/04/99
Indicium Correction
45
Print a Postage Correction:
Print a Date Correction:
05/04/99
Return Address Graphic:
Include Graphic
Browse...
80
43
Return Address
52
Font...
Left Margin:
Top Margin:
Delievery Address
54
Font...
Left Margin:
Top Margin:
Indicium Graphic:
56
Include Graphic
Browse...
82
OK
Cancel
Help

FIG. 8


78
STAMPS.COM
2900 31ST ST STE 150
SANTA MONICA CA 90405-3035
$0.00
VOID
STAMPS.COM
2900 31ST ST STE 150
SANTA MONICA CA 90405-3035

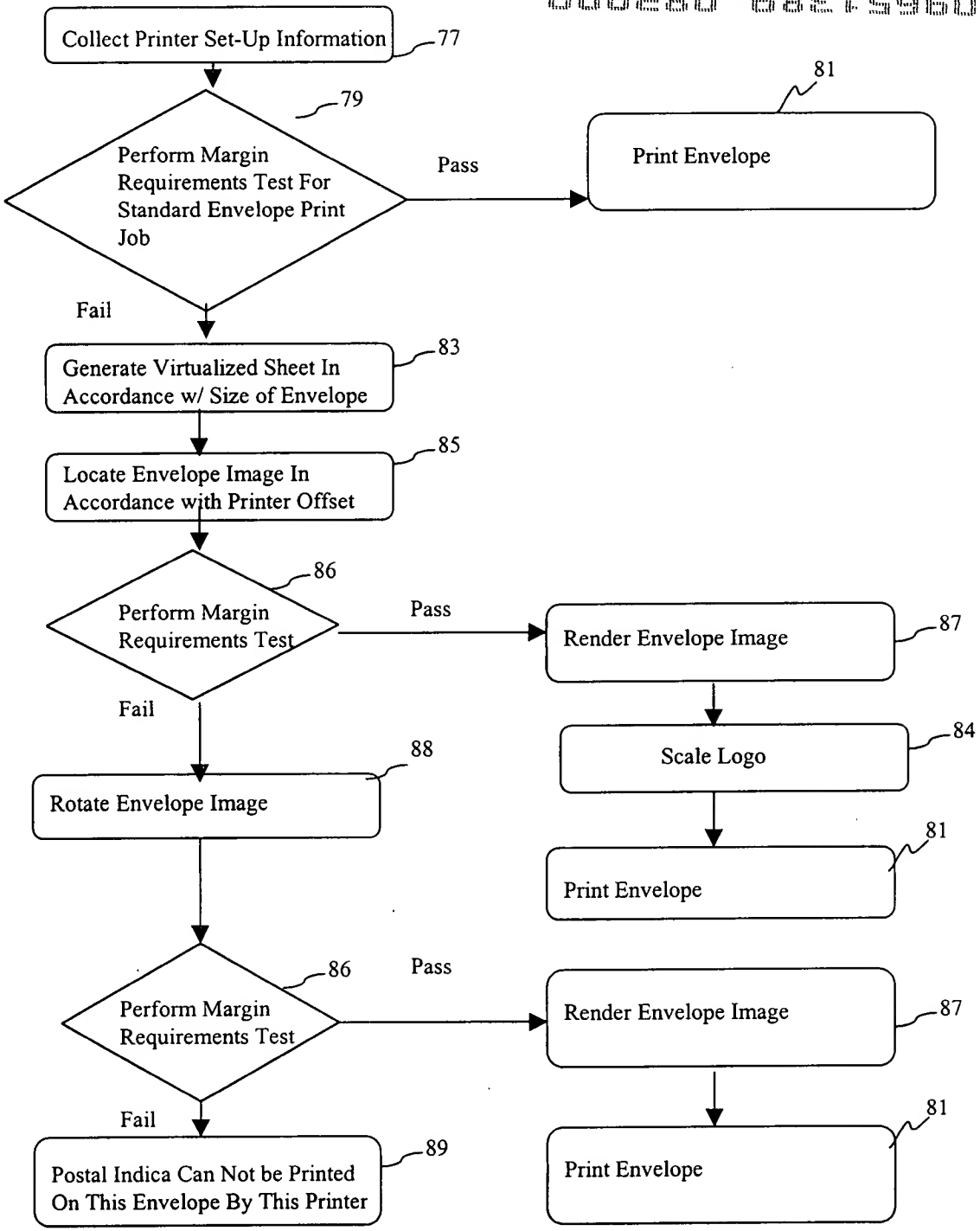

Collect Printer Set-Up Information
77
79
Perform Margin Requirements Test For Standard Envelope Print Job
Pass
81
Print Envelope
Fail
Generate Virtualized Sheet In Accordance w/ Size of Envelope
83
Locate Envelope Image In Accordance with Printer Offset
85
Perform Margin Requirements Test
86
Pass
Render Envelope Image
87
Scale Logo
84
Print Envelope
81
Fail
Rotate Envelope Image
88
Perform Margin Requirements Test
86
Pass
Render Envelope Image
87
Print Envelope
81
Fail
Postal Indica Can Not be Printed On This Envelope By This Printer
89

FIG. 9

FIG. 10

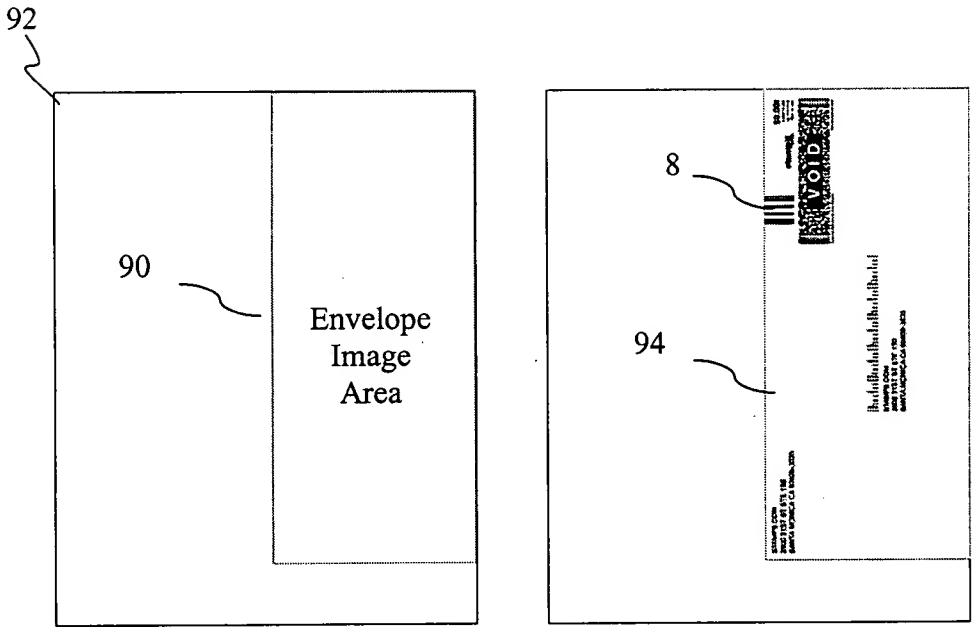


FIG. 11

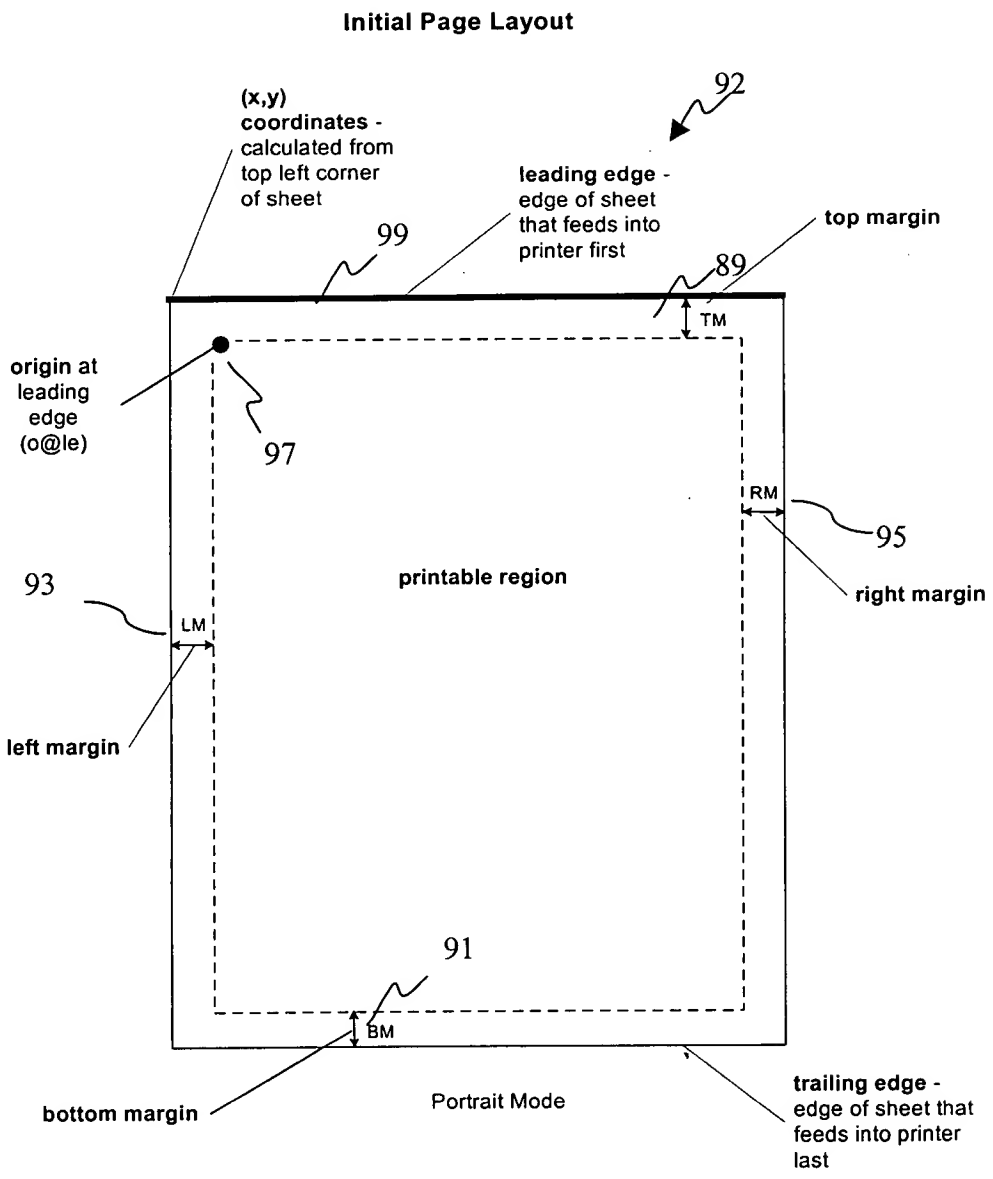
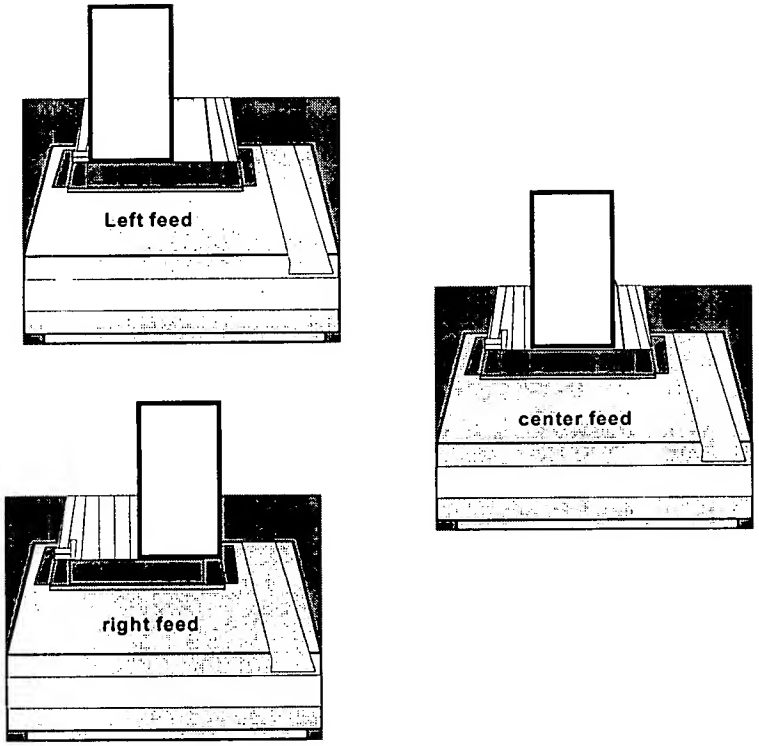
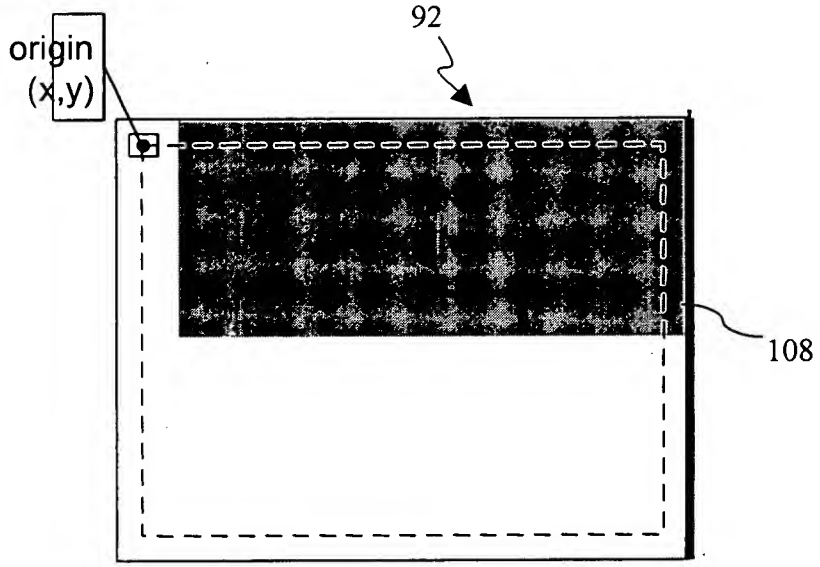
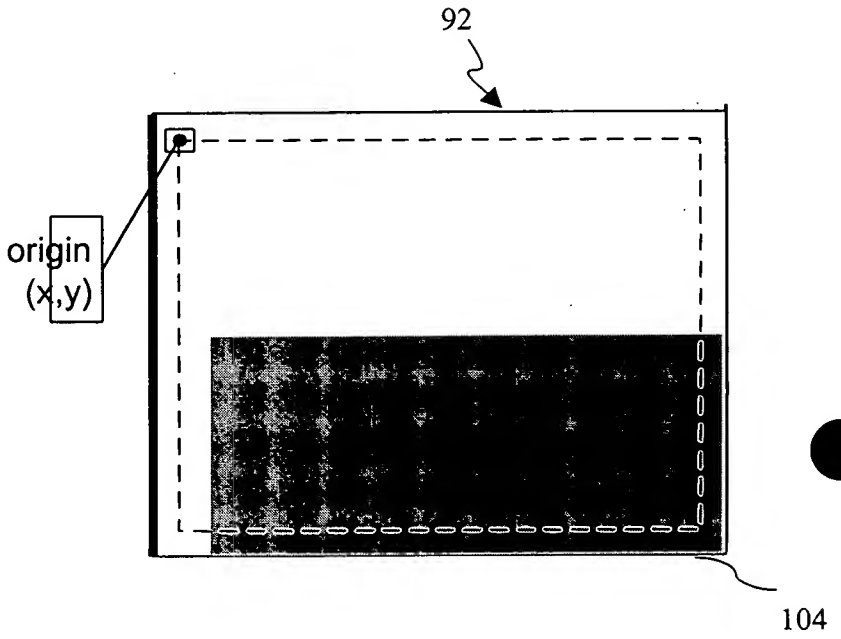

Initial Page Layout
(x,y) coordinates - calculated from top left corner of sheet
92
leading edge - edge of sheet that feeds into printer first
99
top margin
89
TM
origin at leading edge (o@le)
97
RM
95
93
printable region
right margin
LM
left margin
91
BM
bottom margin
Portrait Mode
trailing edge - edge of sheet that feeds into printer last

FIG. 12

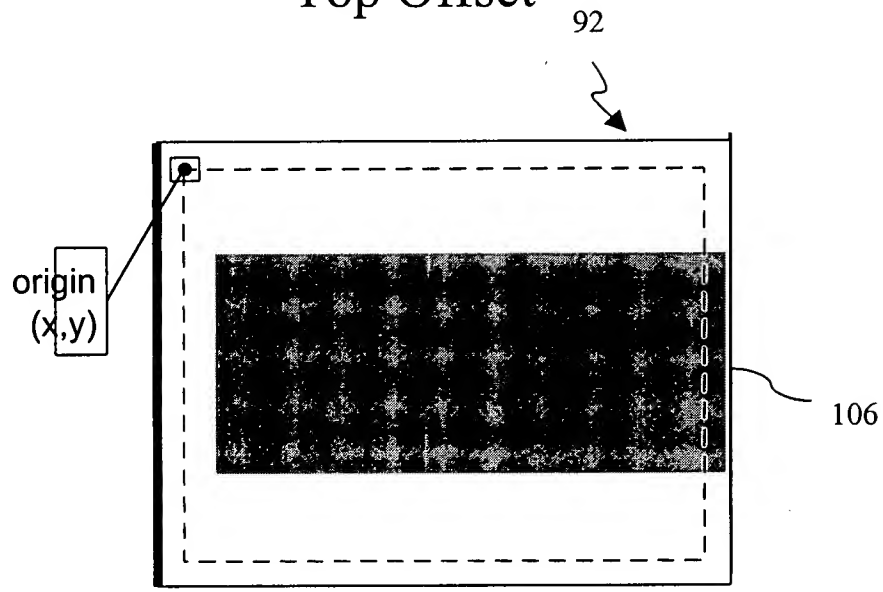




Top Offset



Bottom Offset



Center Offset

FIG. 13

FIG. 14A

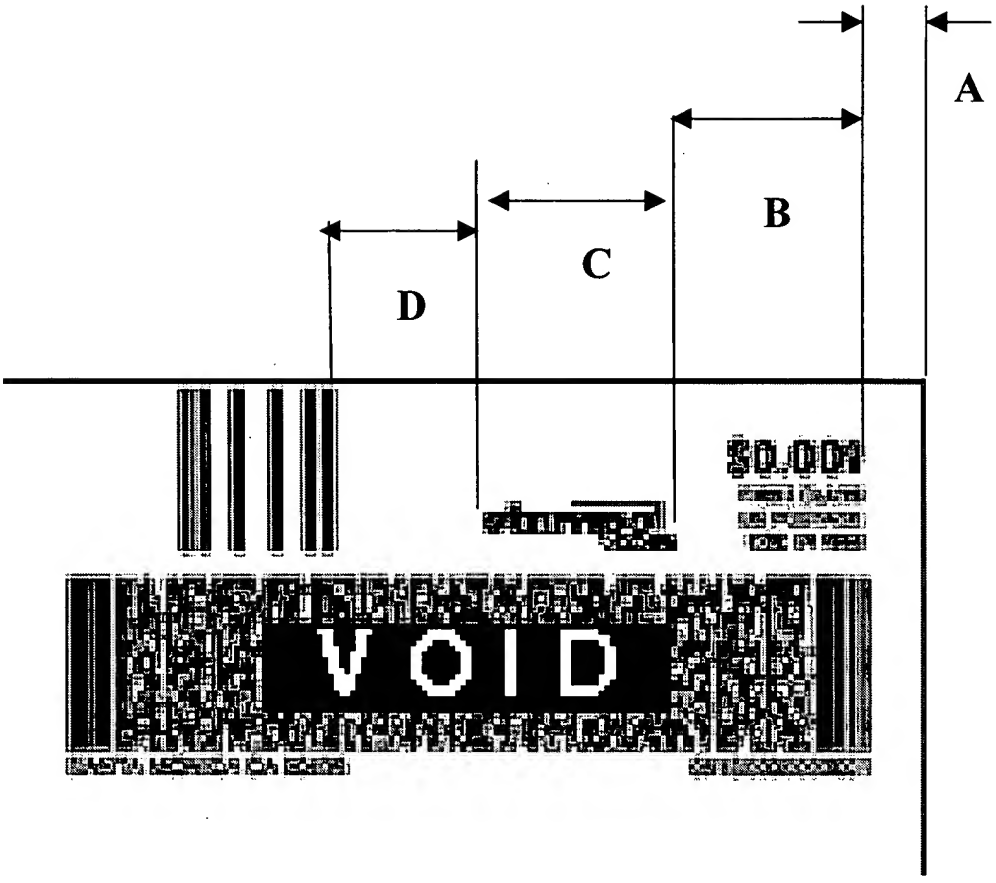


FIG. 14B

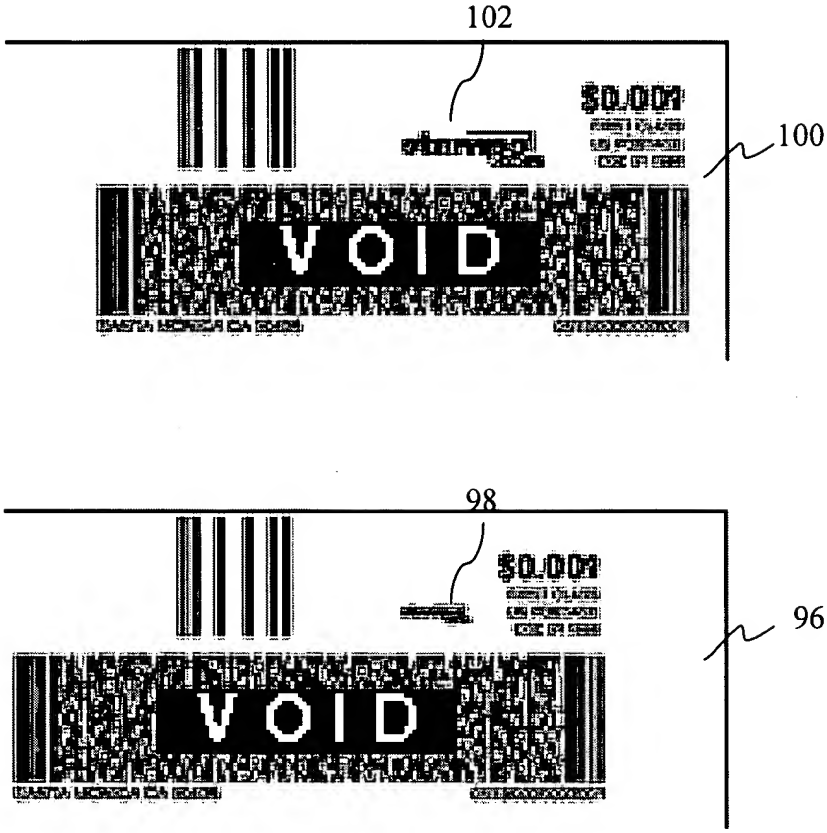
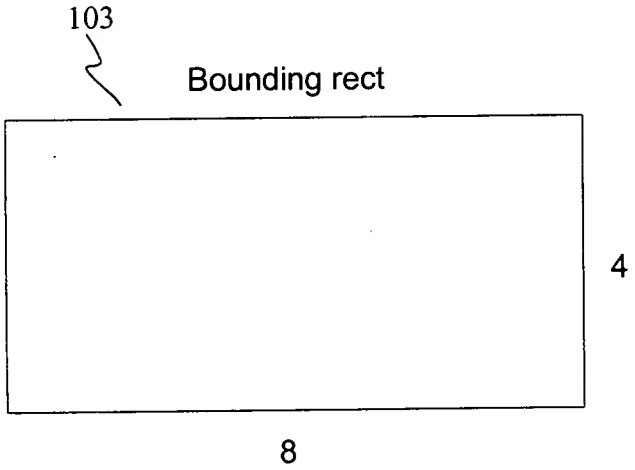
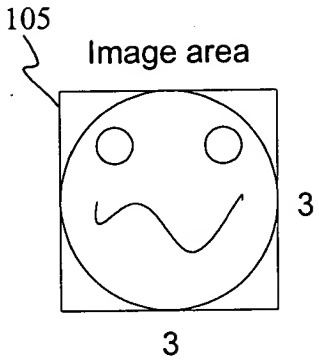


FIG. 15



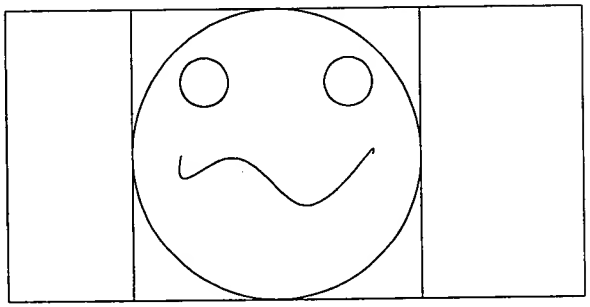


Bounding rect aspect ratio -> 8 / 4 = 2

Image area aspect ratio -> 3 / 3 = 1

Scaling factor = 4 / 3

New image area: height = 4, width = 4



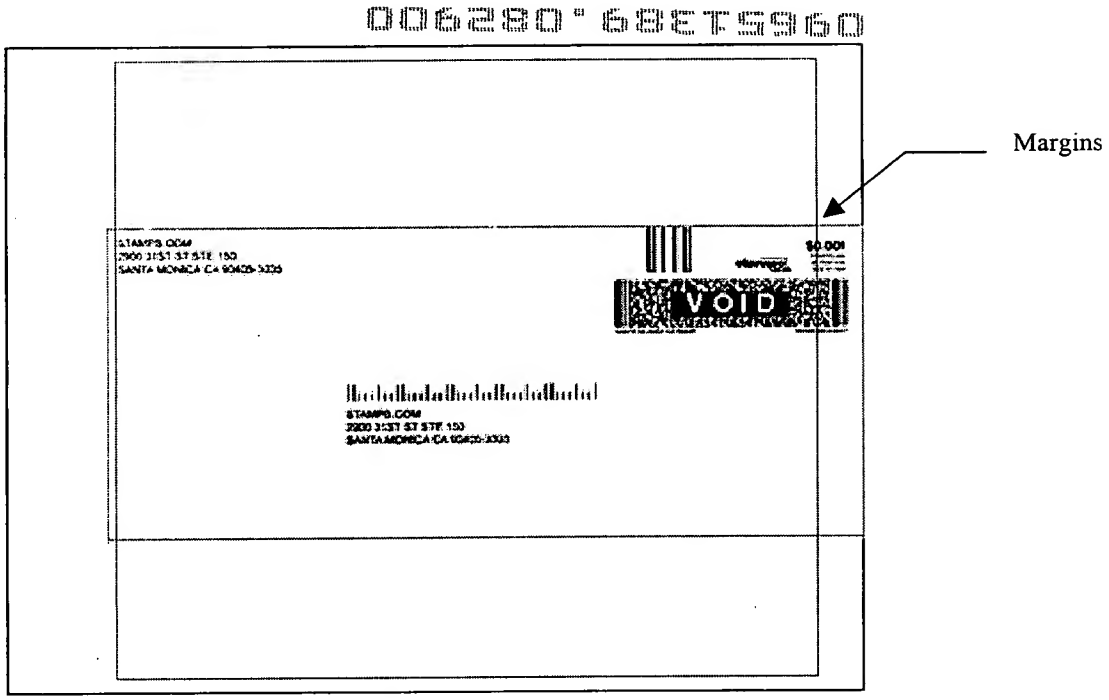


FIG. 16A

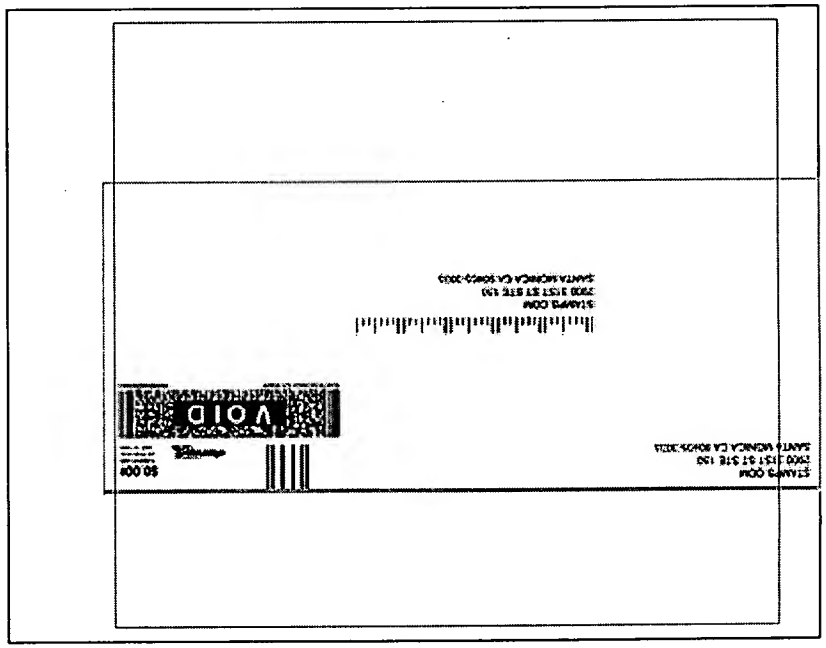


FIG. 16B

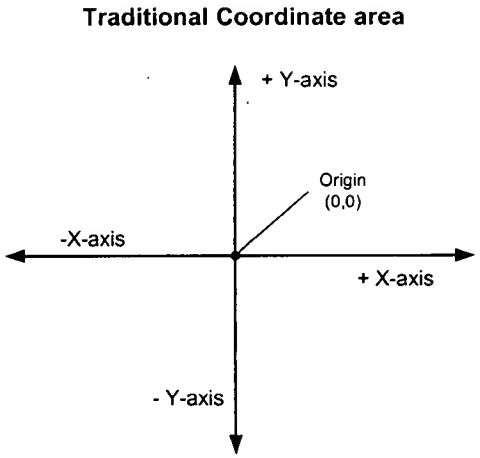


FIG. 17A

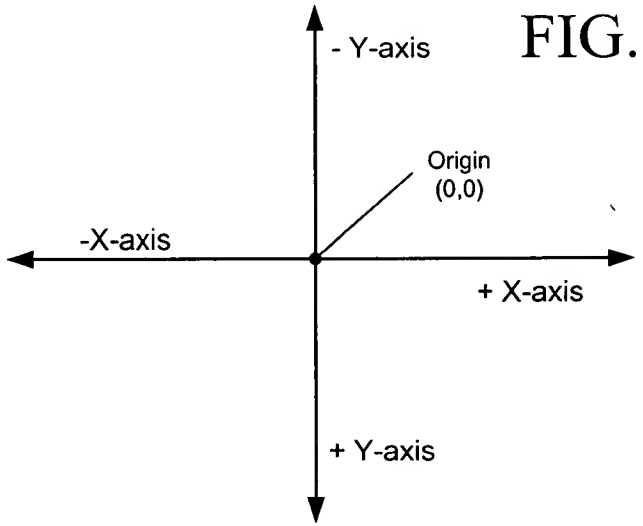


FIG. 17B

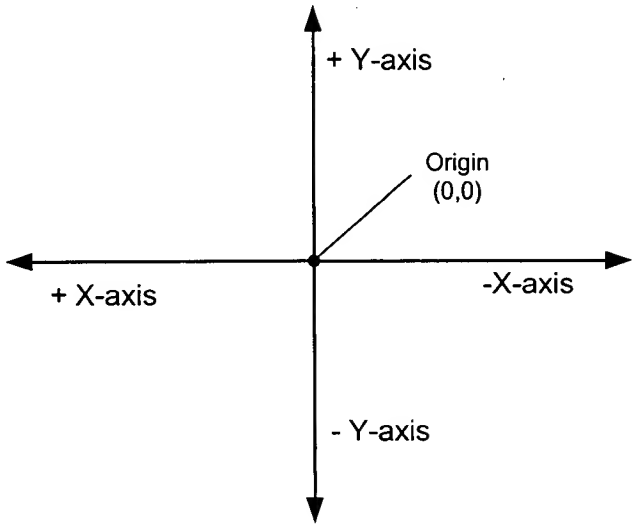


FIG. 17C

FIG. 18

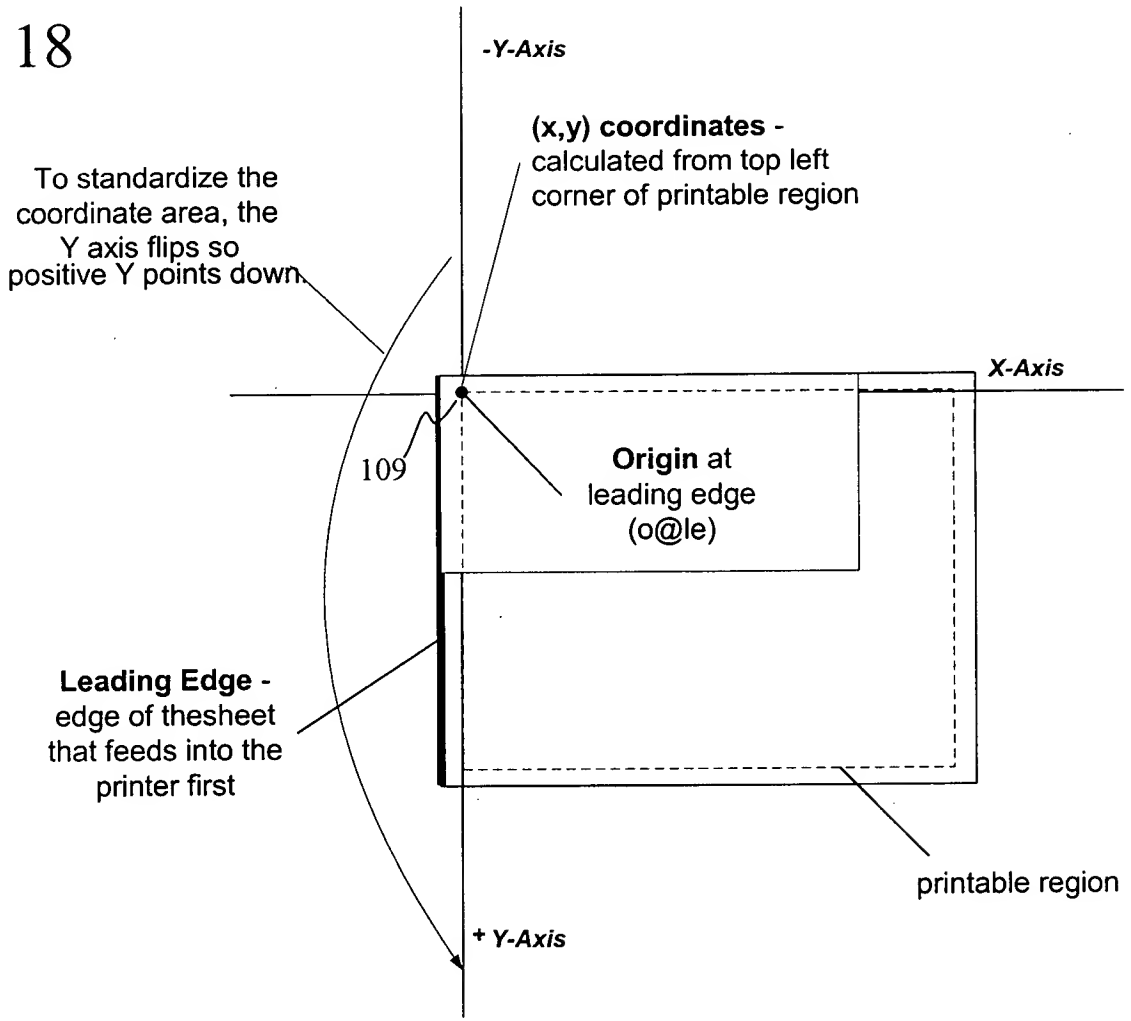

Origin with no envelope image rotation (EIR)
-Y-Axis
(x,y) coordinates - calculated from top left corner of printable region
To standardize the coordinate area, the Y axis flips so positive Y points down.
X-Axis
109
Origin at leading edge (o@le)
Leading Edge - edge of thesheet that feeds into the printer first
printable region
+ Y-Axis

FIG. 19

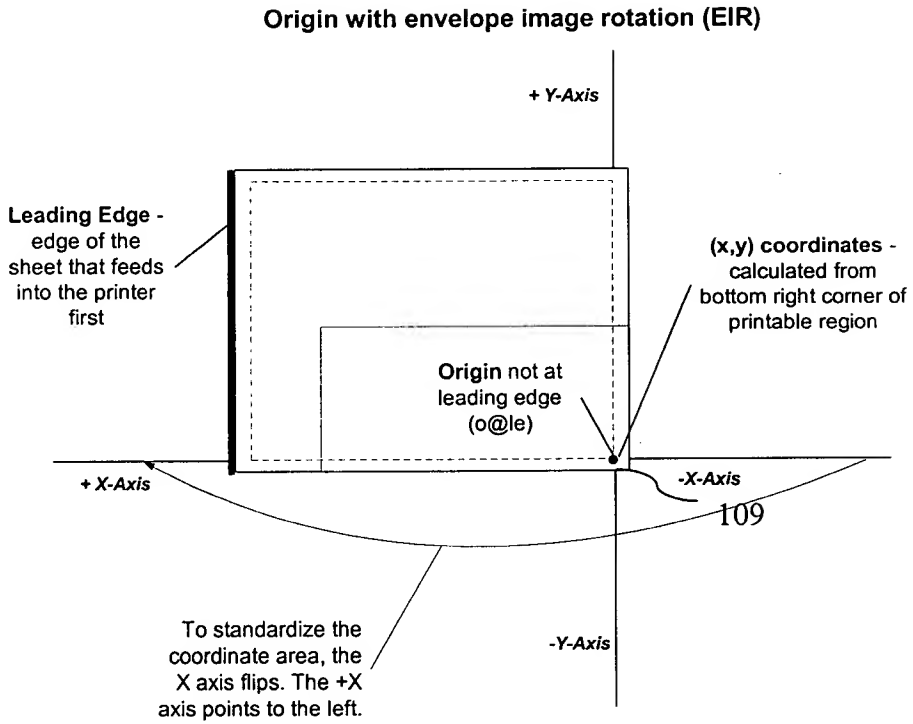

Origin with envelope image rotation (EIR)
+ Y-Axis
Leading Edge - edge of the sheet that feeds into the printer first
(x,y) coordinates - calculated from bottom right corner of printable region
Origin not at leading edge (o@le)
+ X-Axis
-X-Axis
109
To standardize the coordinate area, the X axis flips. The +X axis points to the left.
-Y-Axis

FIG. 20A

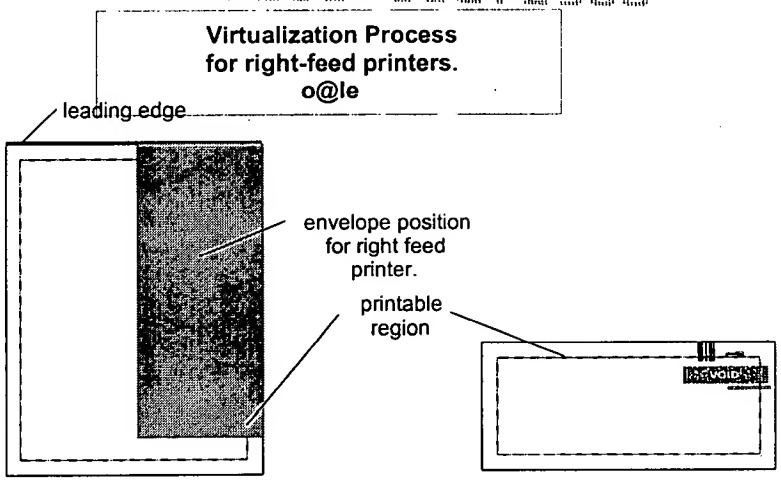


FIG. 20B

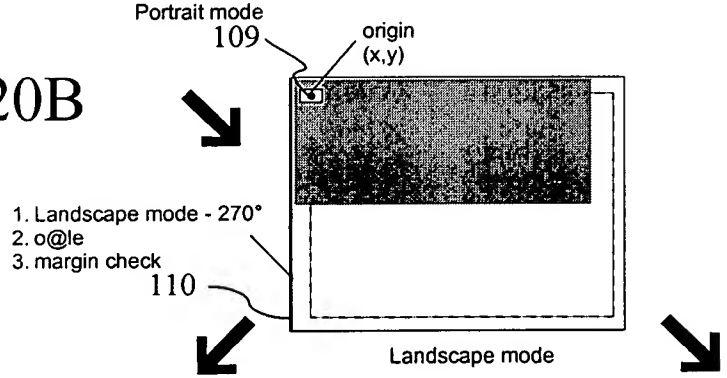


FIG. 20C

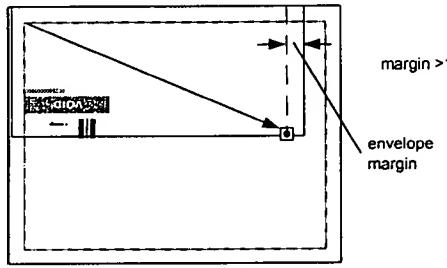


FIG. 20D

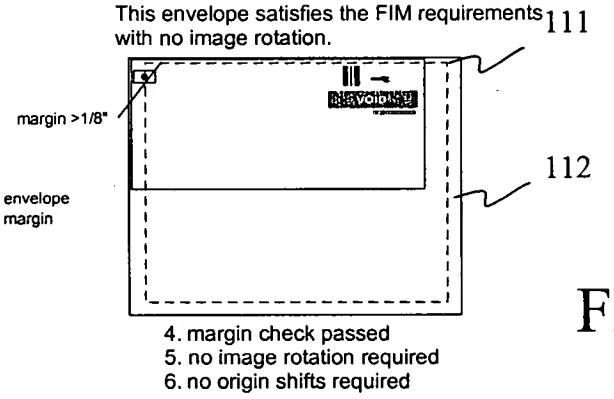


FIG. 20E

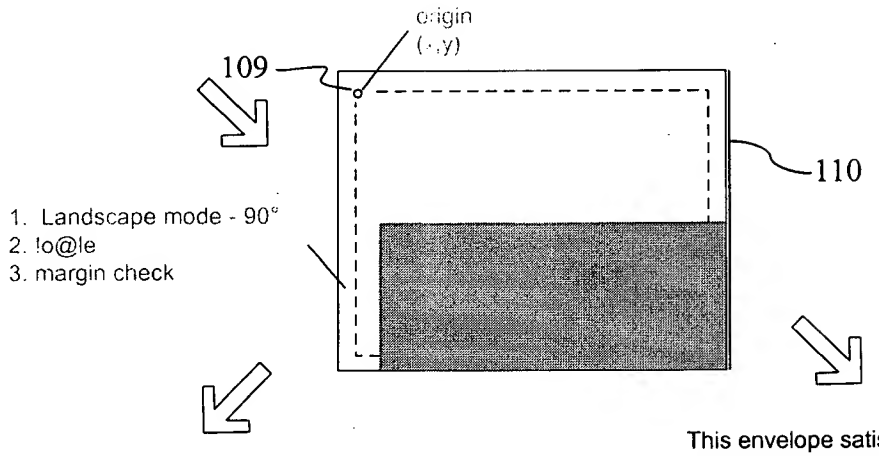
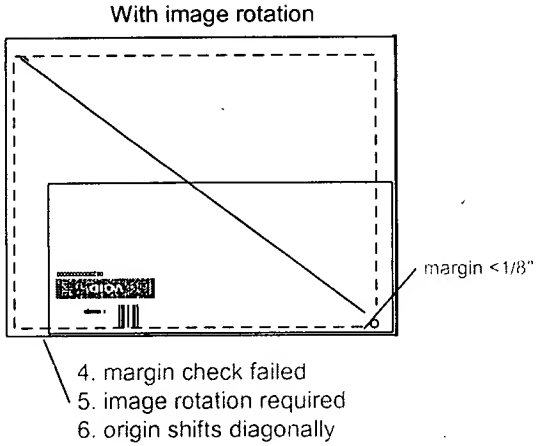


FIG. 20F



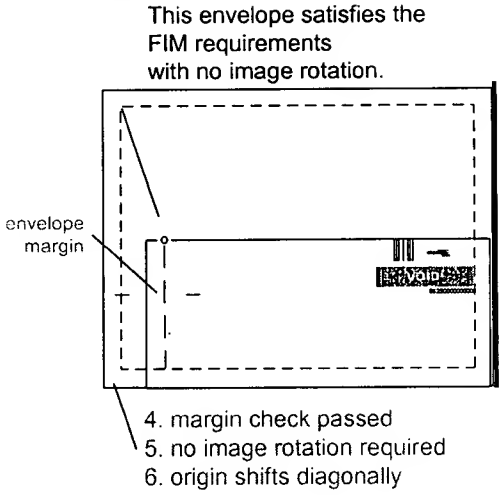


FIG. 20G

FIG. 21A

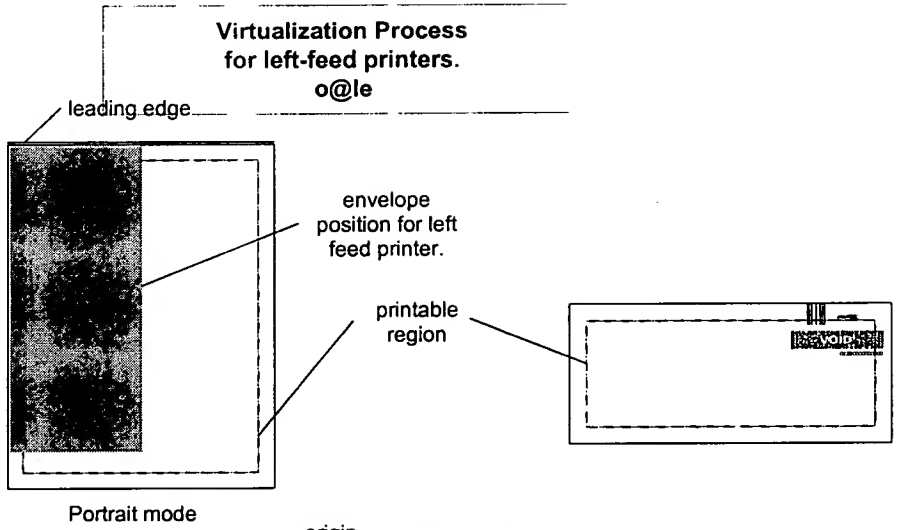


FIG. 21B

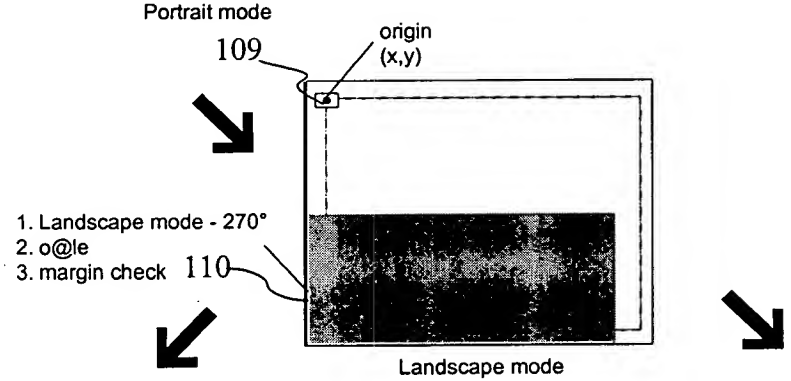


FIG. 21C

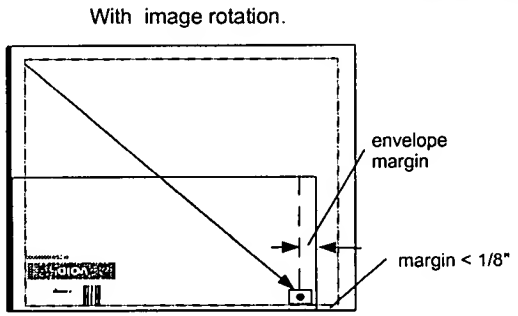


FIG. 21D

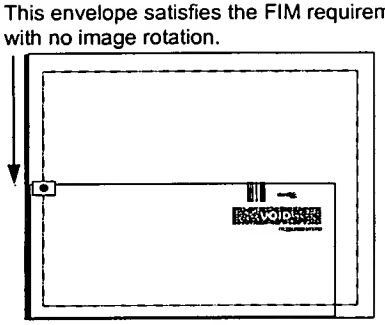


FIG. 21E

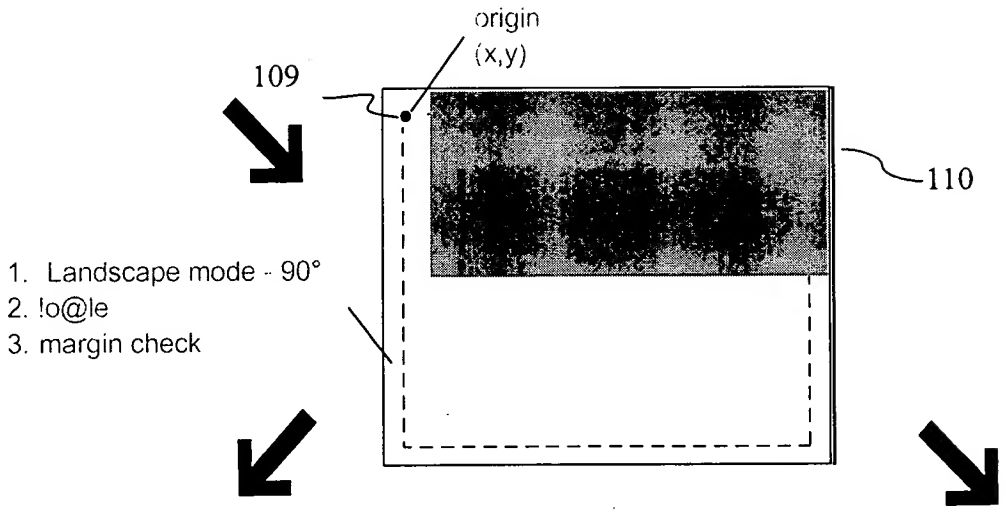
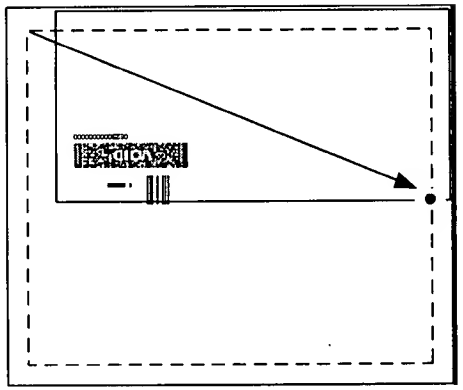
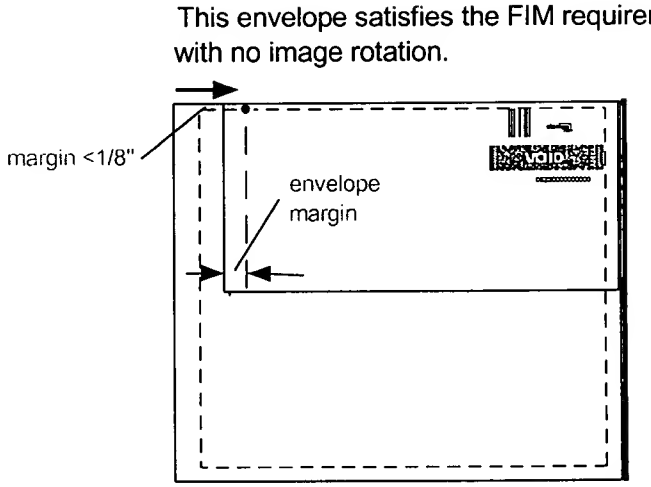


FIG. 21F



4. margin check failed
5. image rotation required
6. origin shifts diagonally



4. margin check passed
5. no image rotation required
6. origin shifts across

FIG. 21G

FIG. 22A

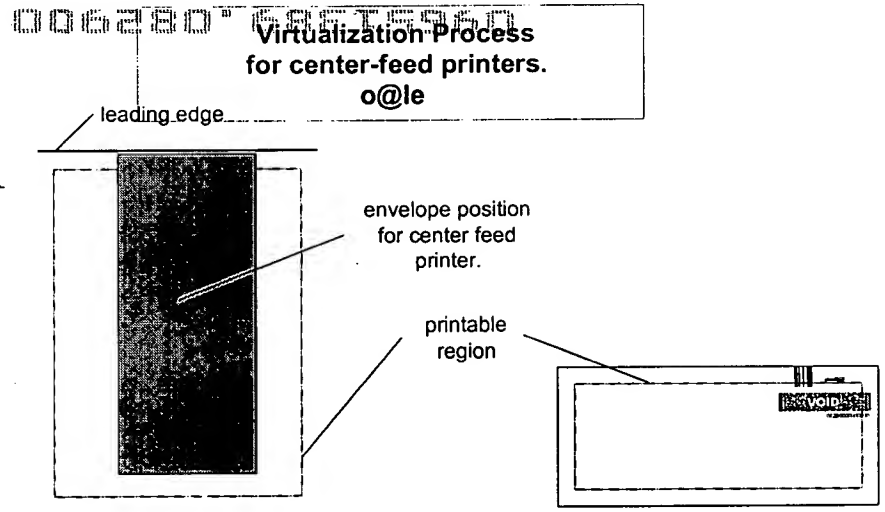


FIG. 22B

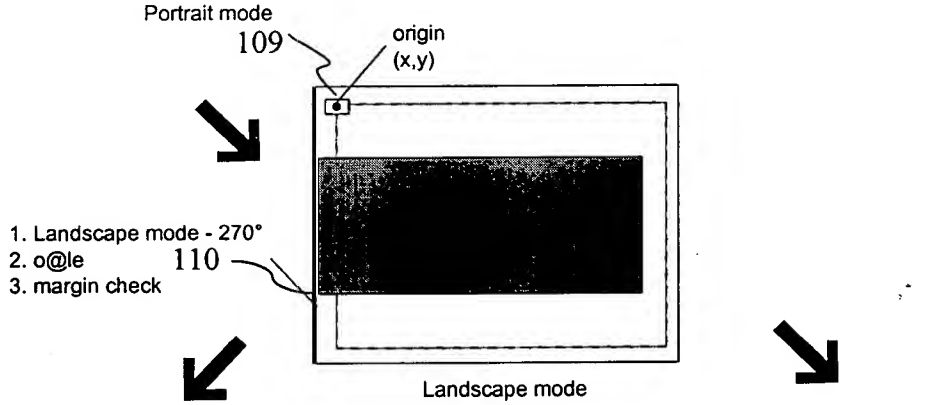
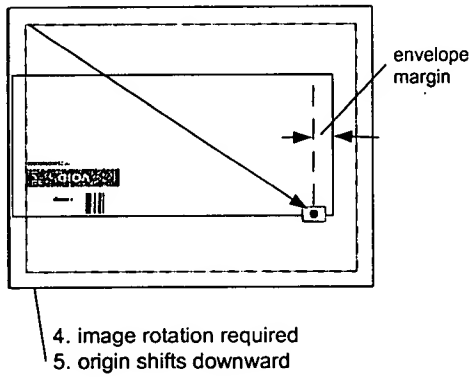


FIG. 22C



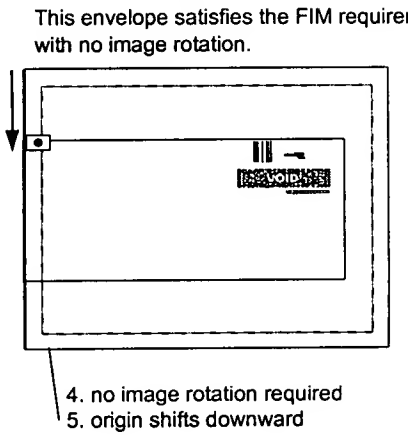


FIG. 22D

FIG. 22E

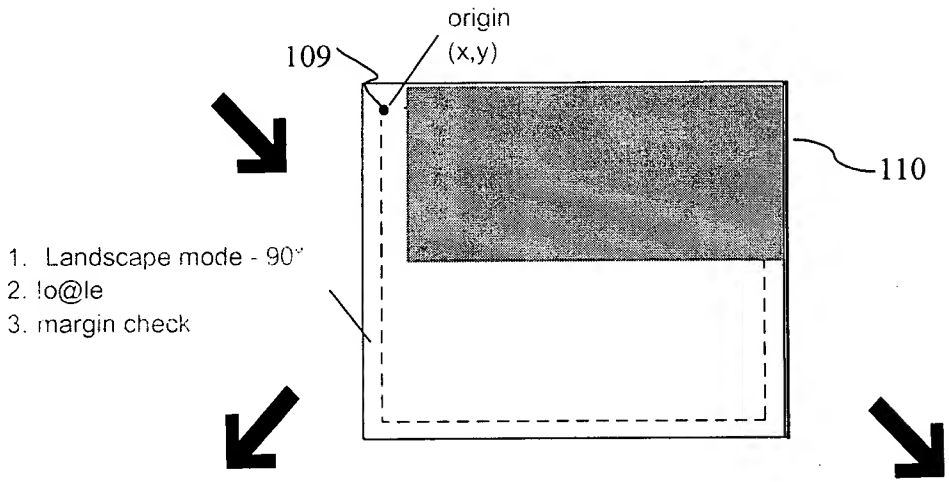
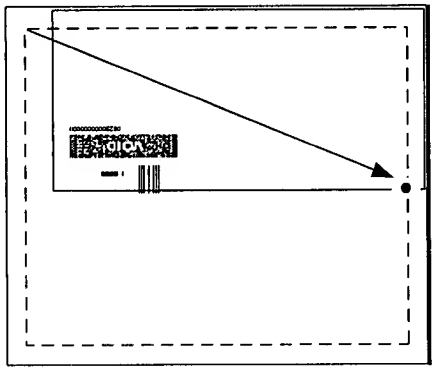
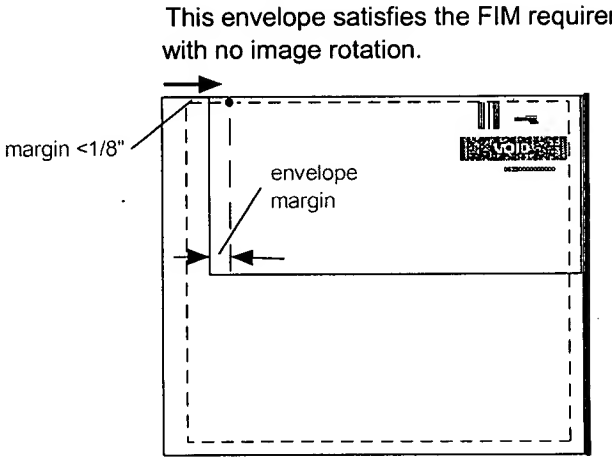


FIG. 22G

FIG. 22F



4. margin check failed
5. image rotation required
6. origin shifts diagonally



4. margin check passed
5. no image rotation required
6. origin shifts across

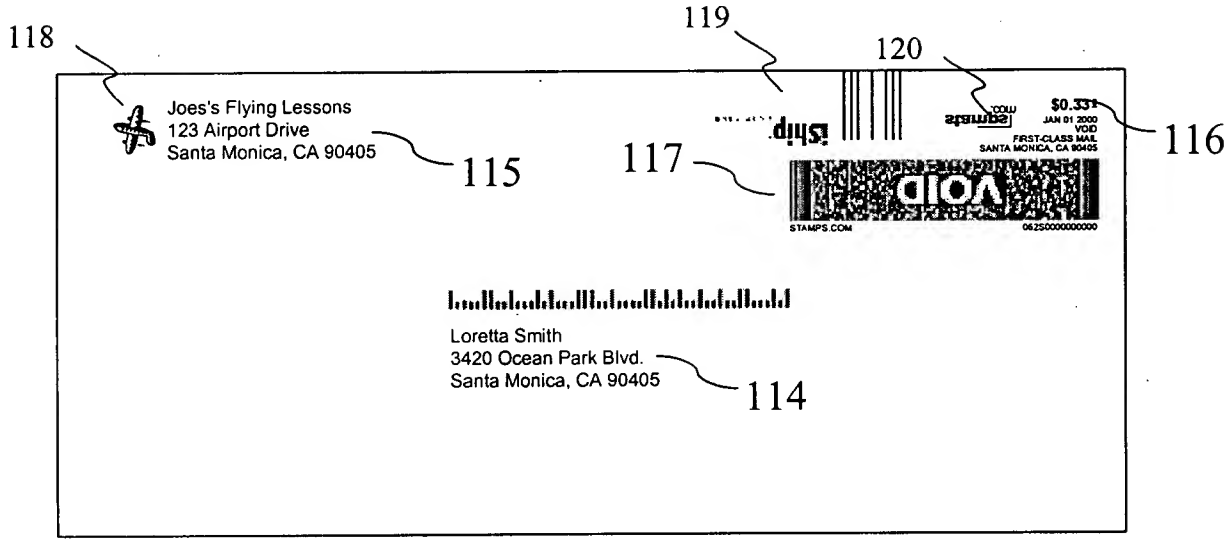

118
119
120
Joes's Flying Lessons
123 Airport Drive
Santa Monica, CA 90405
115
117
$0.33
JAN 01 2000
VOID
FIRST-CLASS MAIL
SANTA MONICA, CA 90405
116
VOID
STAMPS.COM
Loretta Smith
3420 Ocean Park Blvd.
Santa Monica, CA 90405
114

FIG. 23

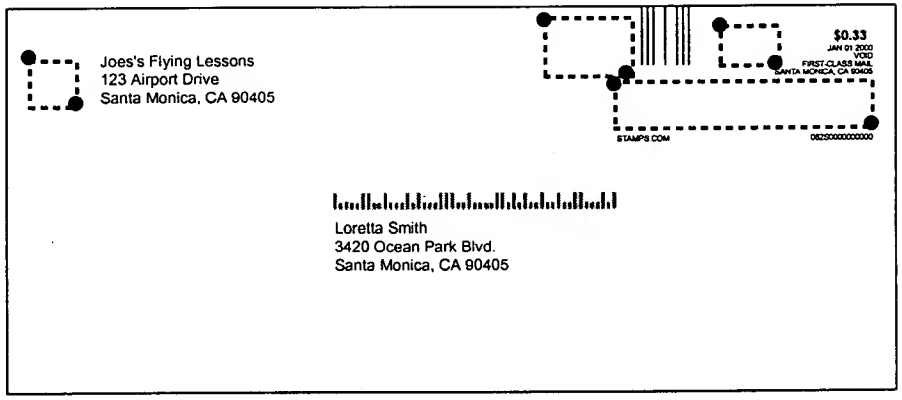

Joes's Flying Lessons
123 Airport Drive
Santa Monica, CA 90405
$0.33
JAN 01 2000
VOID
FIRST-CLASS MAIL
SANTA MONICA, CA 90405
STAMPS.COM
Loretta Smith
3420 Ocean Park Blvd.
Santa Monica, CA 90405

FIG. 24

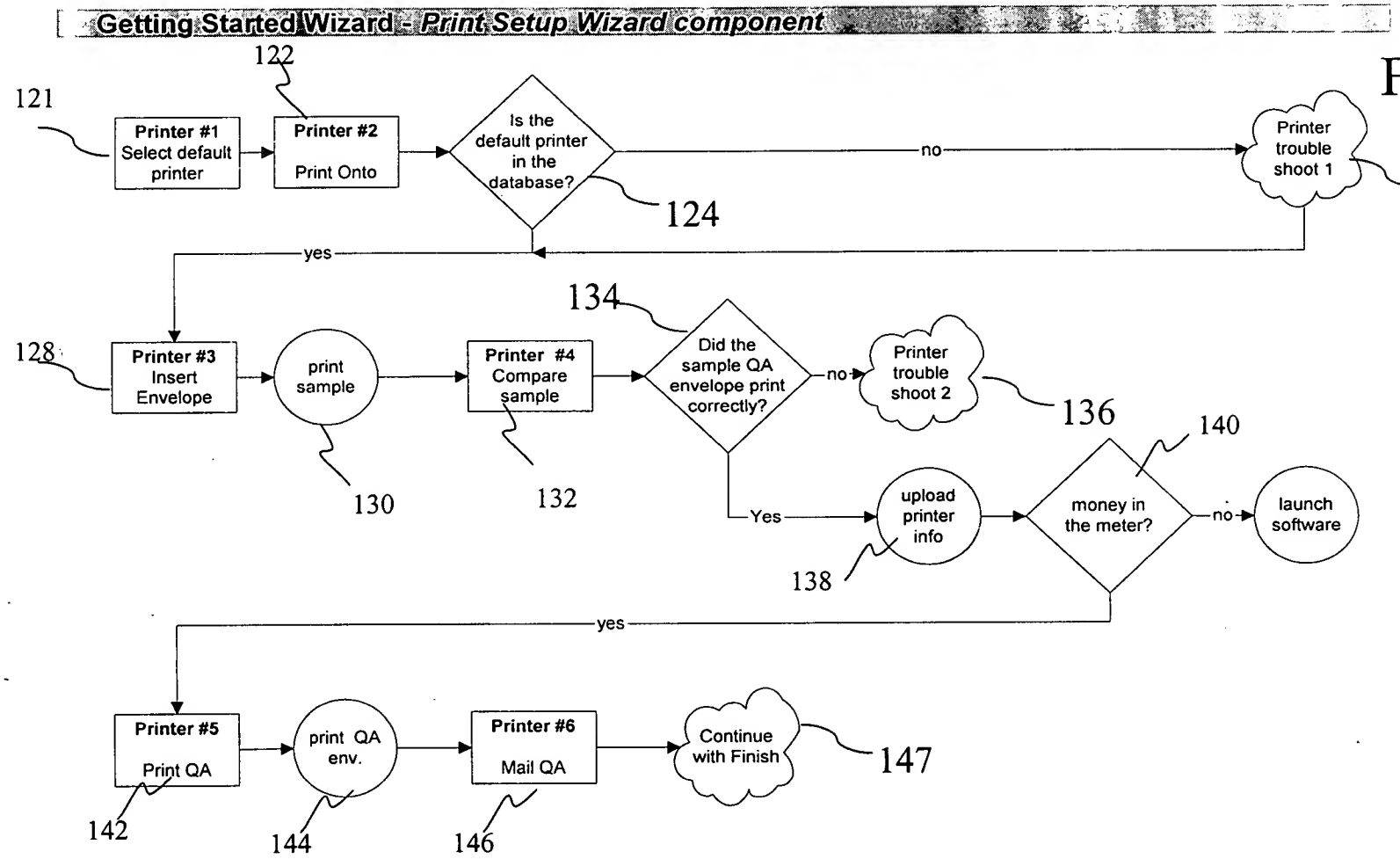
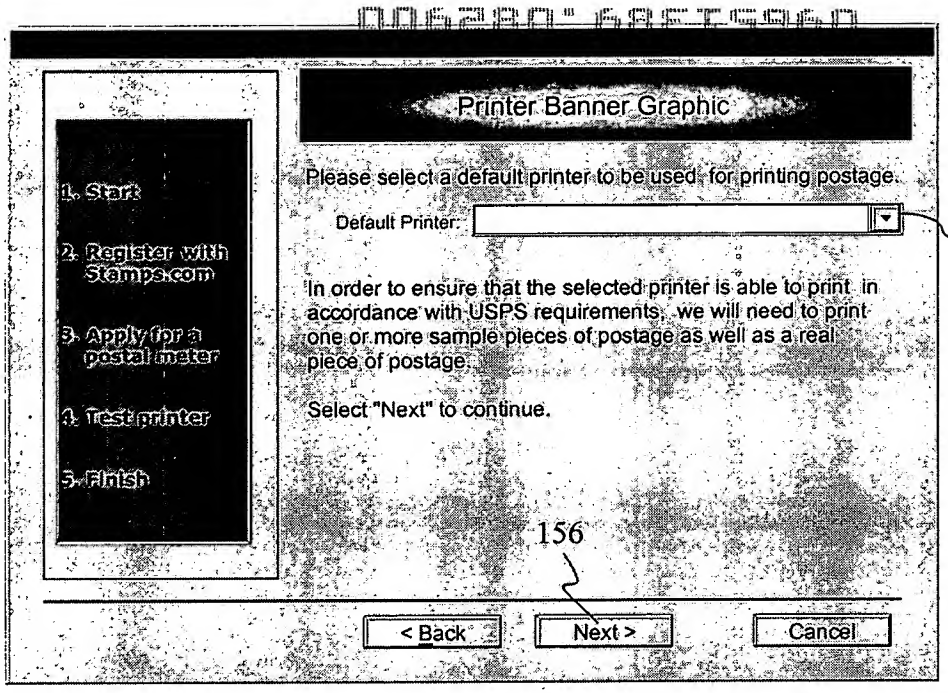

Getting Started Wizard - Print Setup Wizard component
121
122
Printer #1
Select default printer
Printer #2
Print Onto
Is the default printer in the database?
124
no
Printer trouble shoot 1
126
yes
128
Printer #3
Insert Envelope
print sample
130
Printer #4
Compare sample
132
134
Did the sample QA envelope print correctly?
no
Printer trouble shoot 2
136
Yes
upload printer info
138
140
money in the meter?
no
launch software
yes
Printer #5
Print QA
142
print QA env.
144
Printer #6
Mail QA
146
Continue with Finish
147

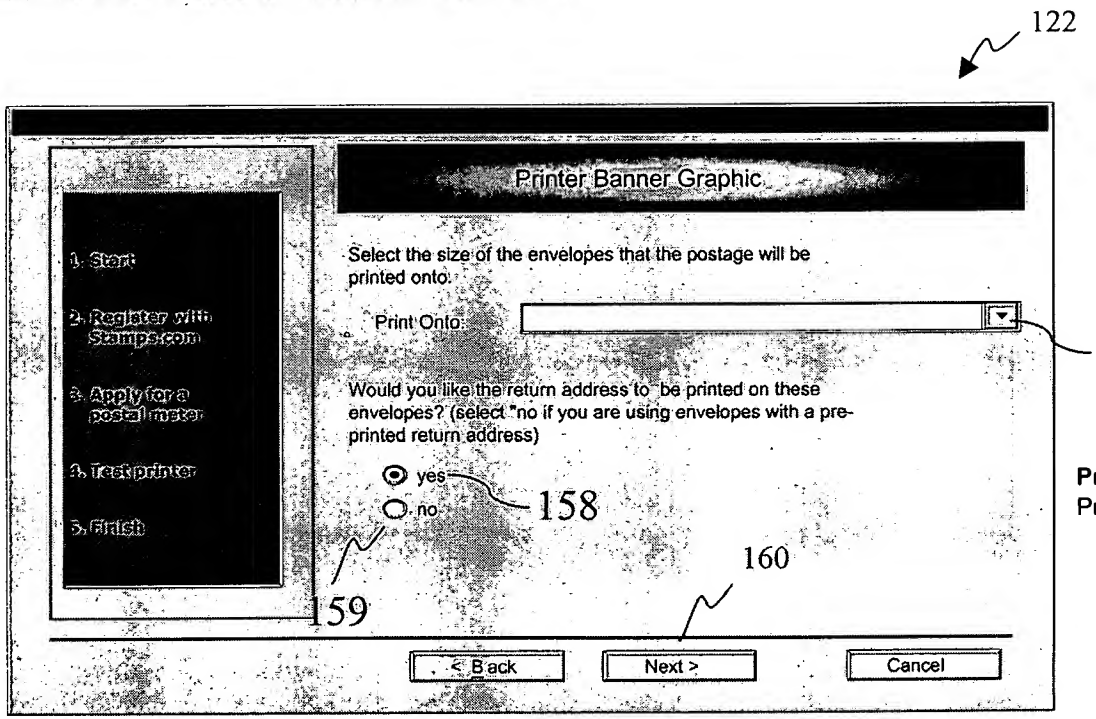
FIG. 25

FIG. 26



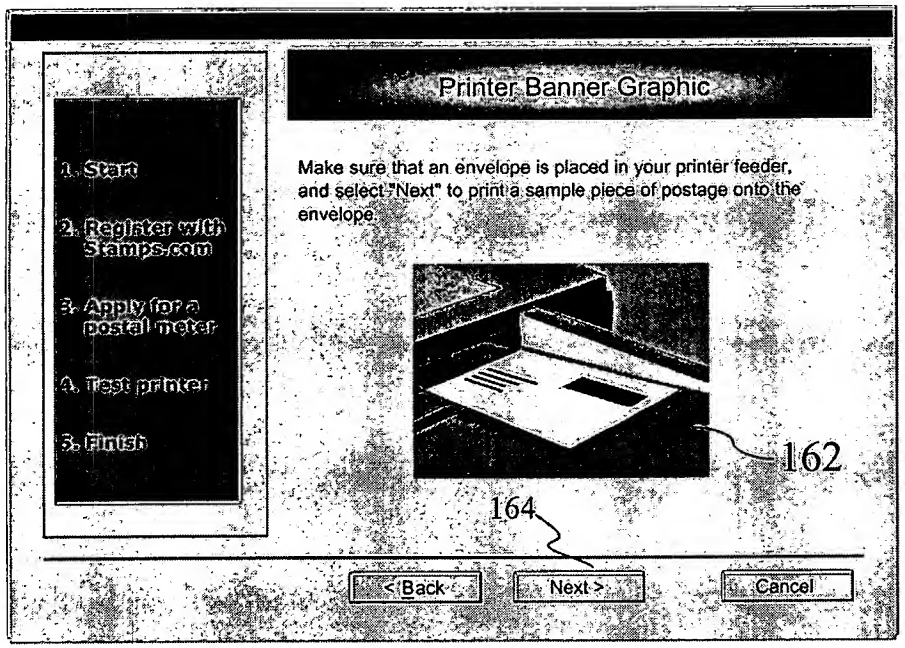
Printer #1
Select Default Printer

FIG. 27



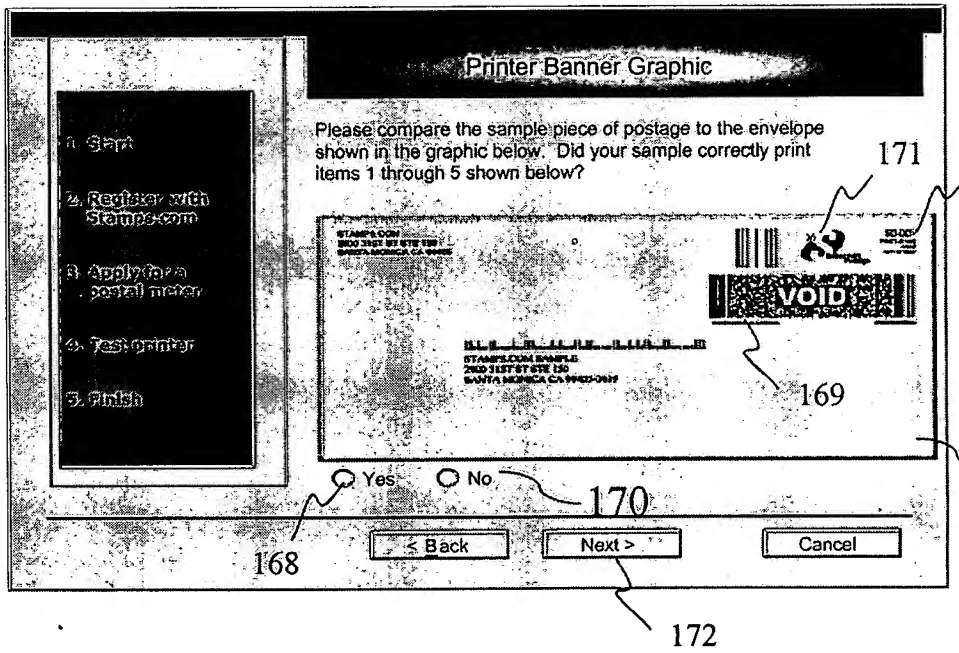
Printer #2
Print Onto

FIG. 28



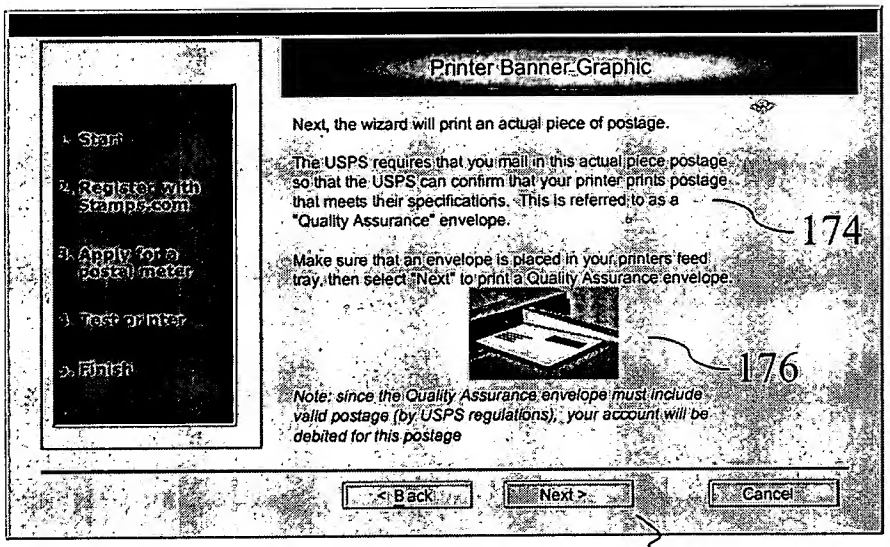
Printer #3
Insert
Envelope

FIG. 29



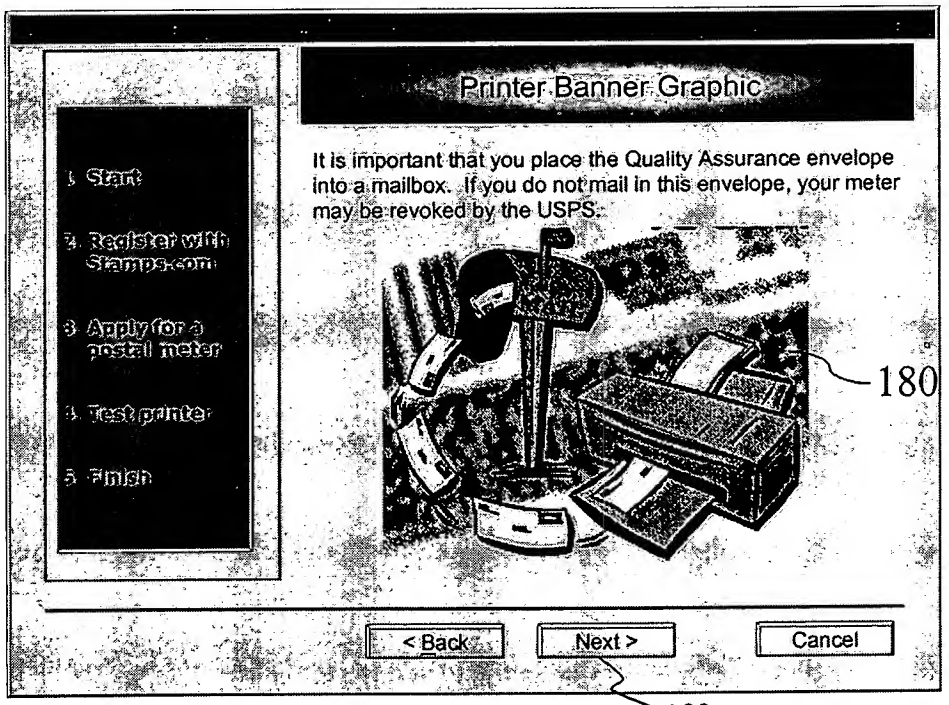
Printer #4
Compare
Sample

FIG. 30



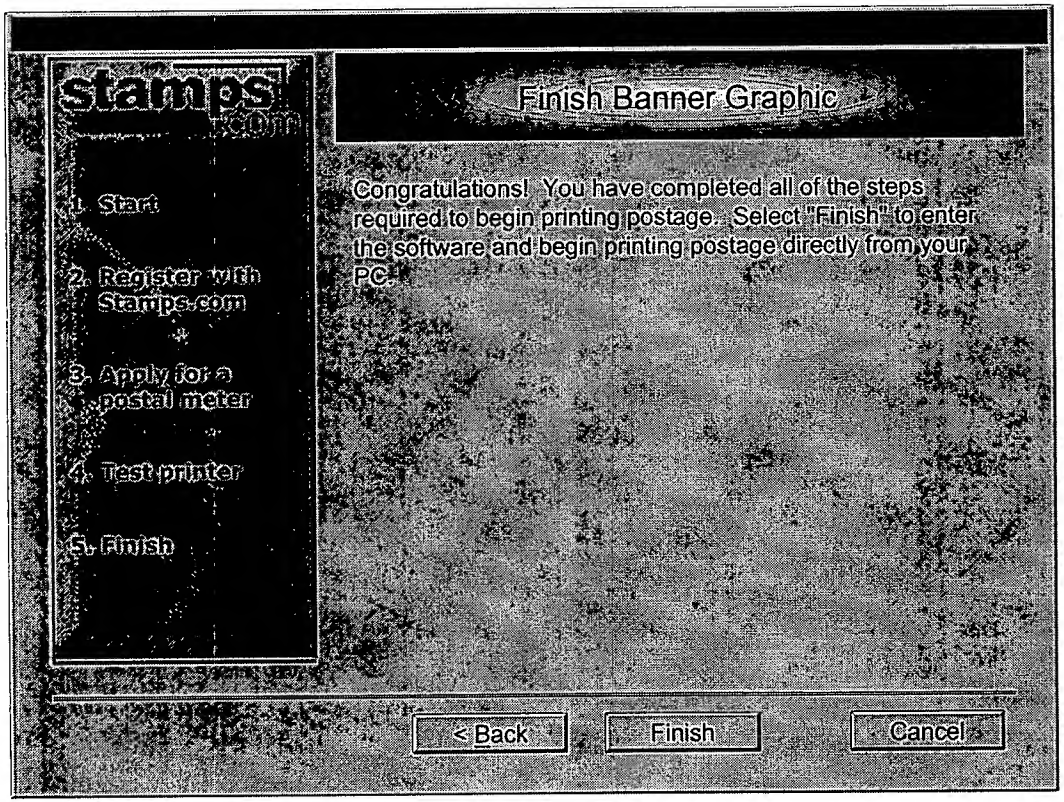
Printer #5
Print QA envelope

FIG. 31



Printer #6
Mail QA envelope

FIG. 32



Finish #1
Congrats

FIG. 33

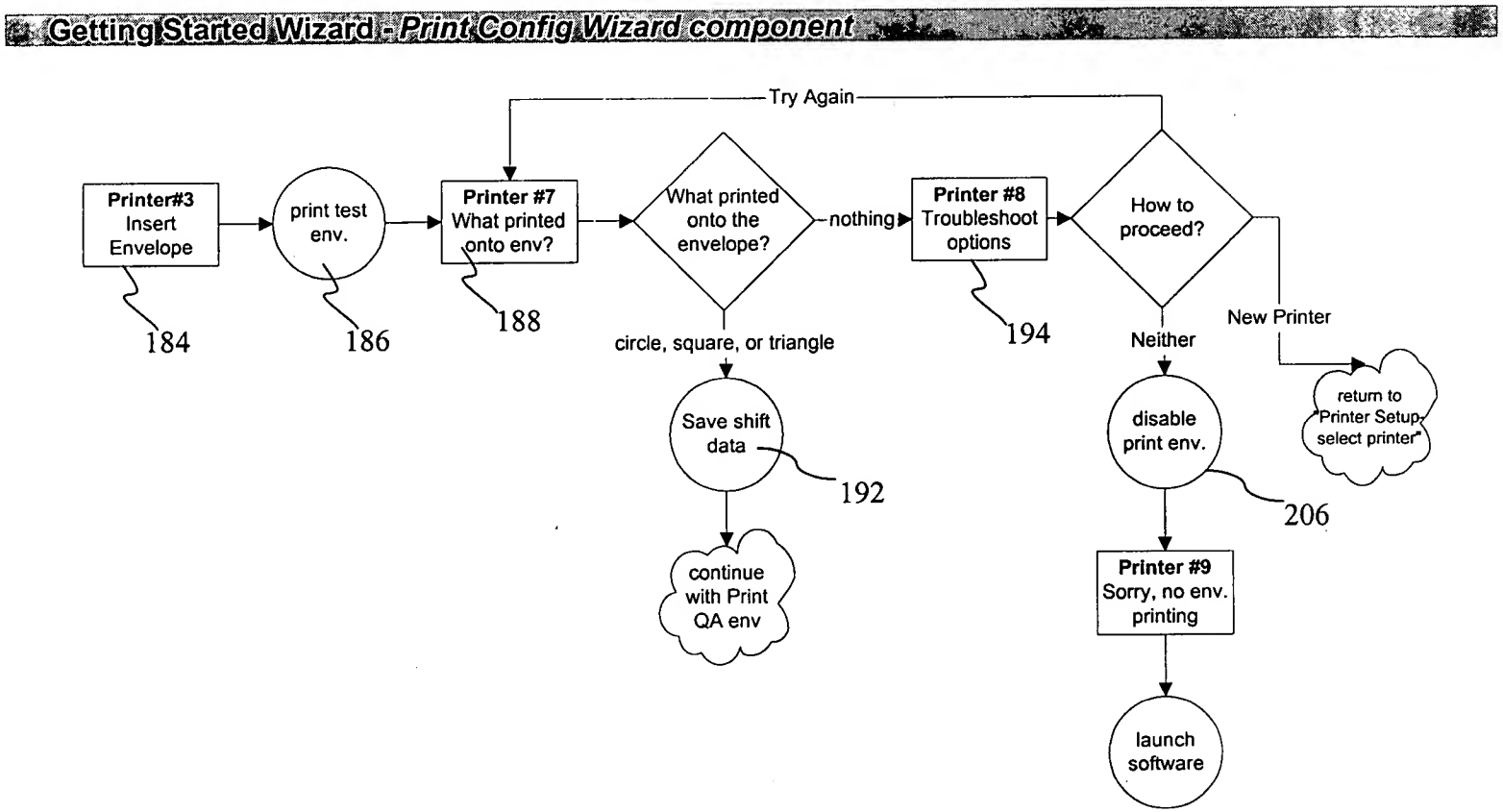

Getting Started Wizard - Print Config Wizard component
Try Again
Printer#3 Insert Envelope
print test env.
Printer #7 What printed onto env?
What printed onto the envelope?
nothing
Printer #8 Troubleshoot options
How to proceed?
New Printer
return to "Printer Setup, select printer"
184
186
188
194
circle, square, or triangle
Neither
Save shift data
192
disable print env.
206
continue with Print QA env
Printer #9 Sorry, no env. printing
launch software

FIG. 34

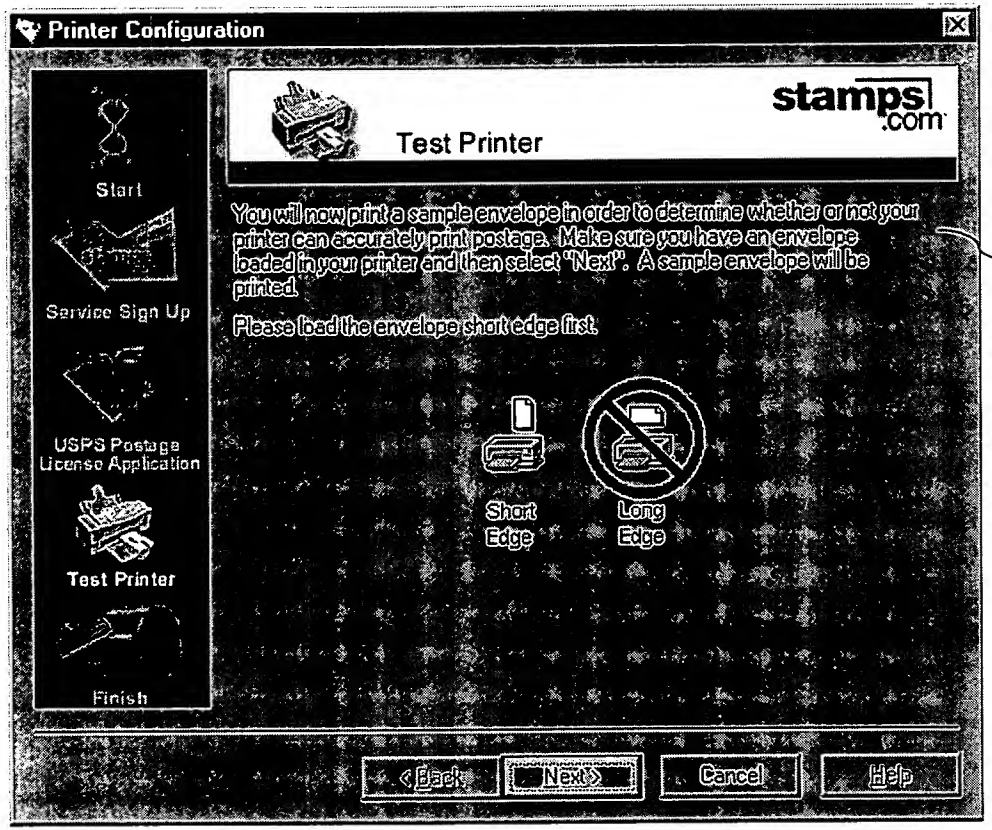
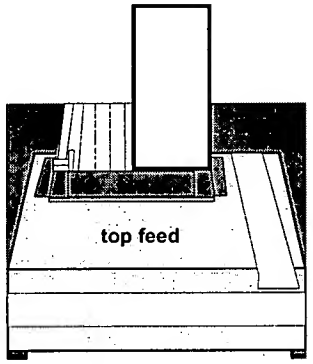
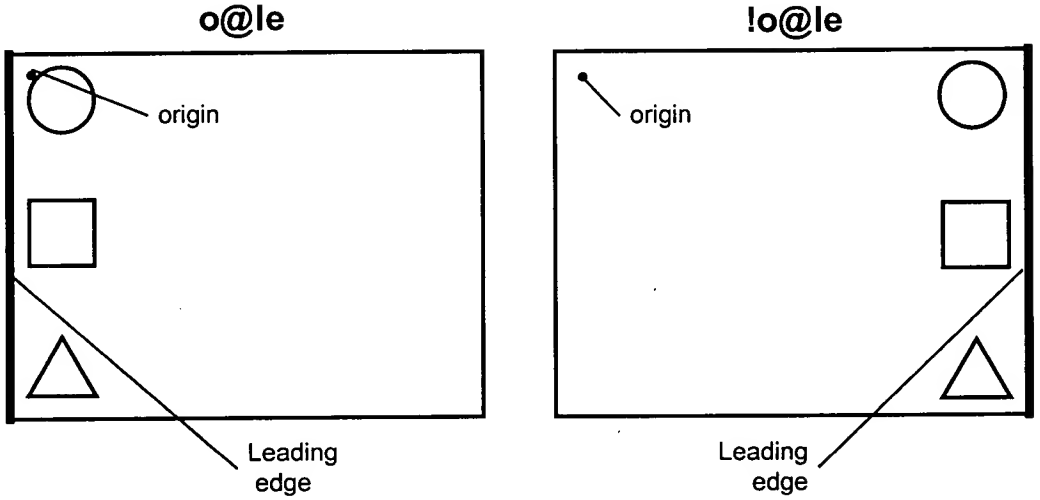

Printer Configuration
Start
Service Sign Up
USPS Postage License Application
Test Printer
Finish
stamps.com
Test Printer
You will now print a sample envelope in order to determine whether or not your printer can accurately print postage. Make sure you have an envelope loaded in your printer and then select "Next". A sample envelope will be printed.
Please load the envelope short edge first.
Short Edge
Long Edge
< Back
Next >
Cancel
Help
183

FIG. 35



Available patterns virtualized on a sheet of paper



An envelope with a circle pattern indicates a top-feed printer

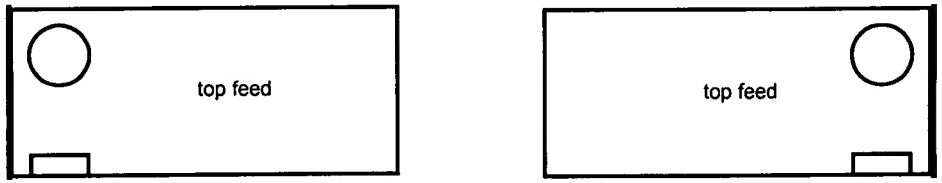
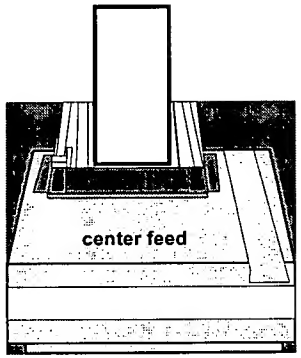
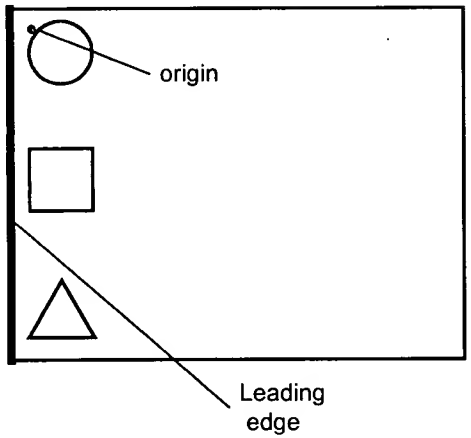


FIG. 36

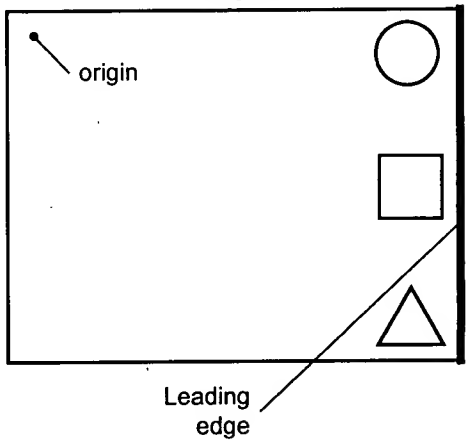


Available patterns virtualized on a sheet of paper

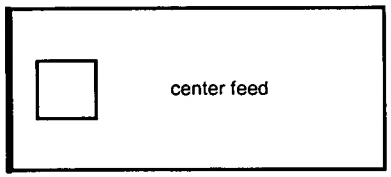
o@le



!o@le



An envelope with a square pattern indicates a center-feed printer



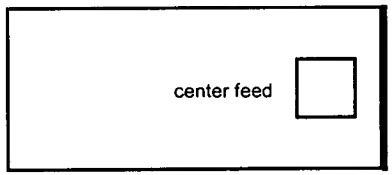
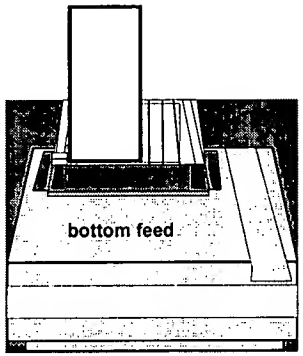
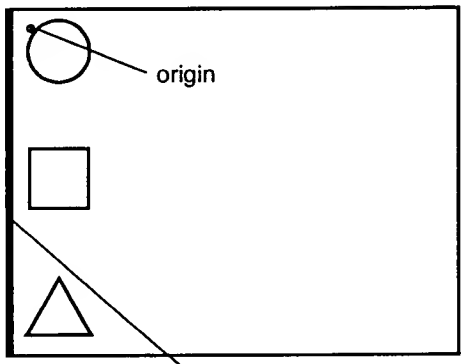


FIG. 37

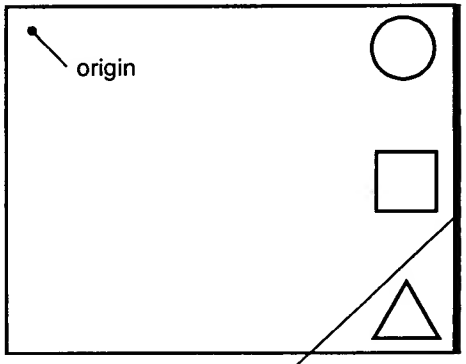


Available patterns virtualized on a sheet of paper

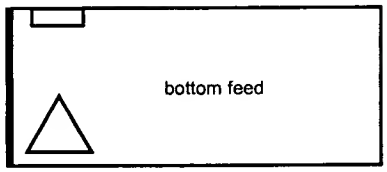
o@le

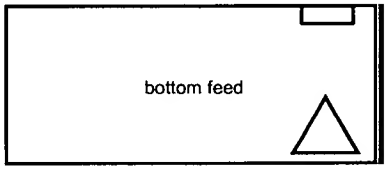


!o@le



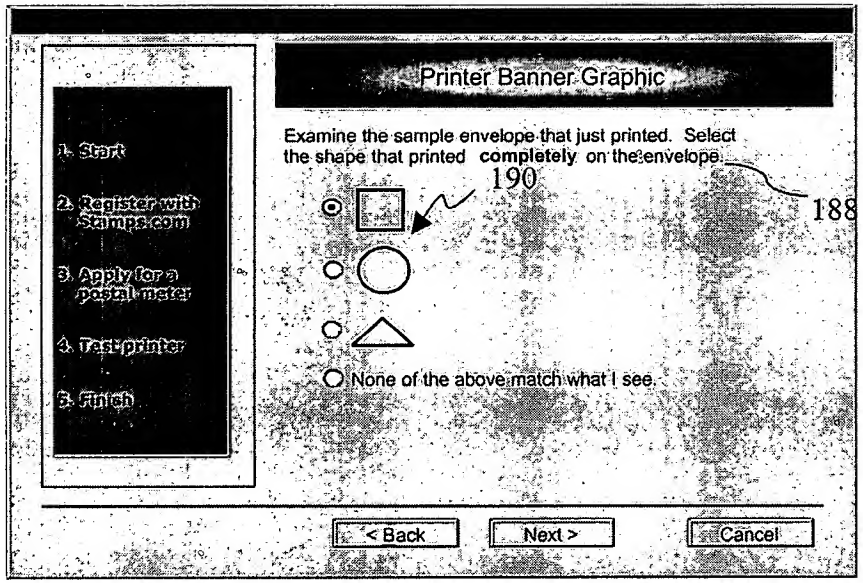
An envelope with a triangle pattern indicates a bottom-feed printer





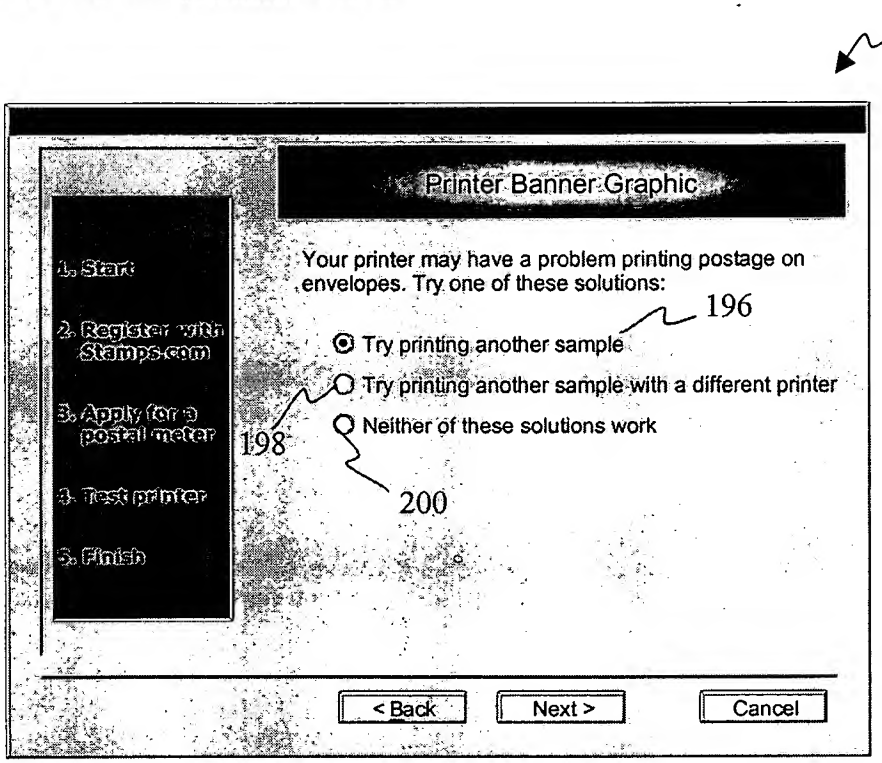
006280 68E5960

FIG. 38



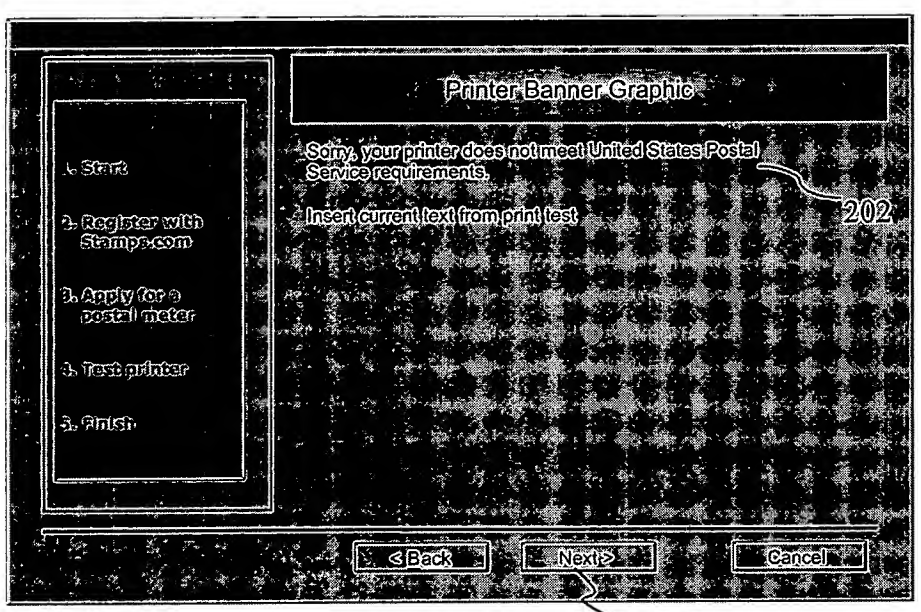
Printer #7
What printed onto envelope?

FIG. 39



Printer #8
Troubleshoo
options

FIG. 40



Printer #9
Sorry, no envelope printing